for MAY: BETTER GARDENING WITH CHEMICALS

GENERAL INFORMATION

Flower Grower

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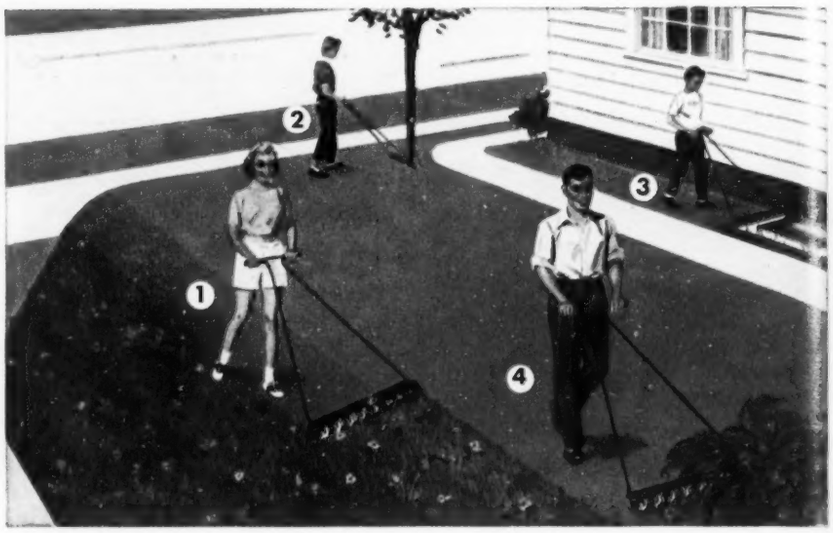

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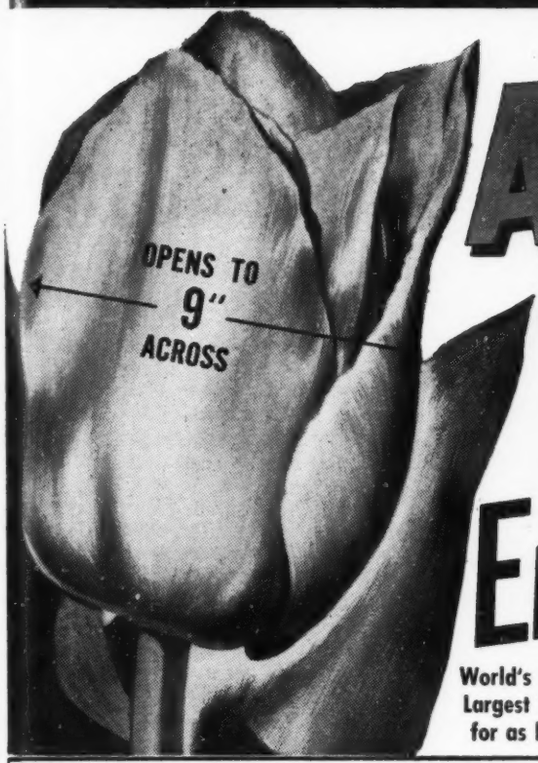

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World's Earliest, Largest Tulip—for as little as **8½¢** EACH

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FB312 Extra Early Giant Tulips
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Fragrant Long-Lasting

HYACINTHS

FB549 Breck's Hyacinth Mixture
Exquisite fragrance and glorious color add long-lasting loveliness to Spring Gardens. For indoor planting, too. These large-size bulbs give huge blooms for years, with little care. **8 Bulbs $1.00**
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FREE "Bookkeeper's Bonus"

15 Blue Glories of the Snow

If you prefer to enclose full payment now, thus saving us bookkeeping expense, we will include FREE 15 Blue Glories of the Snow with your bulbs. These charming sky-blue flowers bloom at Crocus time and give your garden a head start on Spring. You get 15 Bulbs, free of cost, simply by including remittance with your order for Holland Bulbs at Breck's Advance Sale prices.

BRECK'S, 244 Breck Building, BOSTON 10, MASS.

Without any money in advance, please reserve for me the following Holland Bulbs at special Advance Sale prices. Notify me when ready for early fall planting. **RESERVE ALL YOU WANT**—If larger quantities than listed below, write order on separate paper.

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TULIPS: *May Flowering Collections*
FB26 Five Varieties, Unlabeled ☐ 15 BULBS $1 ☐ 30 BULBS $1.98
FB27 Same 5, separately labeled ☐ 50 BULBS $3.25 ☐ 100 BULBS $6.35

TULIPS: *FB280 May Flowering Mixture*
☐ 15 BULBS $1 ☐ 30 BULBS $1.98 ☐ 100 BULBS $6.29

TULIPS: *FB312 Early Giant Tulips*
☐ 15 BULBS $1 ☐ 30 BULBS $1.98 ☐ 100 BULBS $6.29

TULIPS: *FB249 Parrot Tulip Mixture*
☐ 15 BULBS $1 ☐ 30 BULBS $1.98 ☐ 100 BULBS $6.29

DAFFODILS: *FB323 Red-Cupped Mixture*
☐ 12 BULBS $1 ☐ 24 BULBS $1.98 ☐ 100 BULBS $7.89

DAFFODILS: *FB321 Giant Trumpet Mixture*
☐ 12 BULBS $1 ☐ 24 BULBS $1.98 ☐ 100 BULBS $7.89

DAFFODILS: *FB348 Mrs. R. O. Backhouse*
☐ 6 BULBS $1 ☐ 12 BULBS $1.98 ☐ 50 BULBS $7.89

HYACINTHS: *FB549 Hyacinth Mixture*
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244 BRECK BLDG., BOSTON 10, MASS.

Your DUTCH UNCLE tells the INSIDE STORY about HOLLAND TULIPS

Unfortunately the average gardener has never been fully informed of the full beauty of Holland Tulips. Catalogs generally picture them as you see them growing in the field behind me – large colorful cups on stately stems. Actually, there is a magic beauty to be found inside the cups of most Holland Tulips entirely different in color contrasts, exemplified by the grouping of the pistils, and delicately framed by the petals' edges. Frankly, are you aware of this inner beauty – in the garden or cut flower bouquet?*

PEACOCK TULIPS

"Third Dimension Beauty"

suggests *Your DUTCH UNCLE*

The unique characteristics of Peacock Tulips are the unfurling of the blossoms full and wide, like a Water Lily, revealing in the heart of the blossom the magnificent color variations similar to a Peacock's plume—truly a three dimension effect. You'll be thrilled by the varying interesting designs and markings of purples, blacks and reds on backgrounds of yellows, pinks or orange not seen so pronounced in other tulips.

The Peacock flowers last longer than most tulips blooming from the time of the early to the late flowering varieties, and grow from 10 to 18 inches tall. Take your Dutch Uncle's advice, don't wait, order now as supply in Holland is limited:

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Send for Holland Bulb Catalog

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FLORAL GARDENS, INC.

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★ *Don't miss the inside story of STASSEN "Hidden Treasure" Tulip on page 18*

Flower Grower

May 1953 Vol. 40, No. 5

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(Color transparency by Gottlieb A. Hampfler)

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The photograph at left shows F. Edgar Rice, *left*, president of the Hemerocallis Society, and D. R. McKeithan appraising a typically choice daylily bloom in Mr. Rice's delightful and extensive hemerocallis garden in Bartlesville, Oklahoma. For a visit to this garden, which boasts more than 350 top-notch old and new varieties, turn to the story "Mecca for Daylily Fans" by Lona Eaton Miller on page 46.

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Most exquisite ornamental flowering tree! Now Stern's brings you the lovely ROSE of SHARON in exciting new beauty you've never seen before. Friends will marvel at it! This entire tree covered with hundreds of huge rose-like flowers is *an unforgettable sight!* Remember these are not the ordinary shrub althea—these are magnificent *trees,* one of the loveliest of all flowering trees. Use as an ornamental shade tree along walks or near your house; admirers will come to your home just to see their magnificent beauty.

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***LOOK!* Huge Rose-like flowers up to 4 inches across!**

Makes your home a "SHOW PLACE"

These stately ROSE of SHARON trees will add considerable value to your home—plus exquisite beauty. You will delight in their breath-taking abundance of color and blossoms, their cool summer shade. Grows 15 feet high . . . *blooms continuously from July until October.*

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☐ Shocking PINK

☐ WHITE Banner

Check Quantity

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☐ 3 for $12.00

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• • • imagine 22 or more huge flowers on a single stem—each individual floret the size of a saucer, measuring 6 inches in diameter . . . each flower the size of a giant Amaryllis . . .

• • • imagine a flag-pole spike with eight or more colossal flowers open at the same time—with florets so arranged that the spike is 8 to 10 inches wide—like a solid wall of brilliant color . . .

• • • imagine enjoying weeks of colorful blooms as each bud bursts into flowering glory.

Don't miss this garden thrill—get these new Stern's Skyscraper varieties for a "flower show" garden this summer.

These rare Gladiolus originally sold for as much as $50.00 for a single bulb! Now Stern's brings you these "best-of-the-show" beauties at a price every gardener can afford. We predict that these amazing horticultural specimens will some day be featured as cut flowers by America's finest florists at up to $12 a dozen!

Guaranteed to bloom in 90 days or less—or money back. (No need to return plants.)

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Every Stern's bulb treated INSECT RESISTANT
Every bulb guaranteed to bloom in 90 days or less

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10 of each listed above—	50 bulbs....$ 9.50	
20 of each listed above—	100 bulbs....$18.00	

Send check or money order.

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I want Stern's MAN-HIGH GLADIOLUS that grow 5 to 6 feet tall. Every bulb guaranteed to bloom in 90 days or less.

CHECK QUANTITY
☐ 3 of each 15 BULBS $3.25
☐ 5 of each 25 BULBS $5.00
☐ 10 of each 50 BULBS $9.50
☐ 20 of each 100 BULBS $18.00
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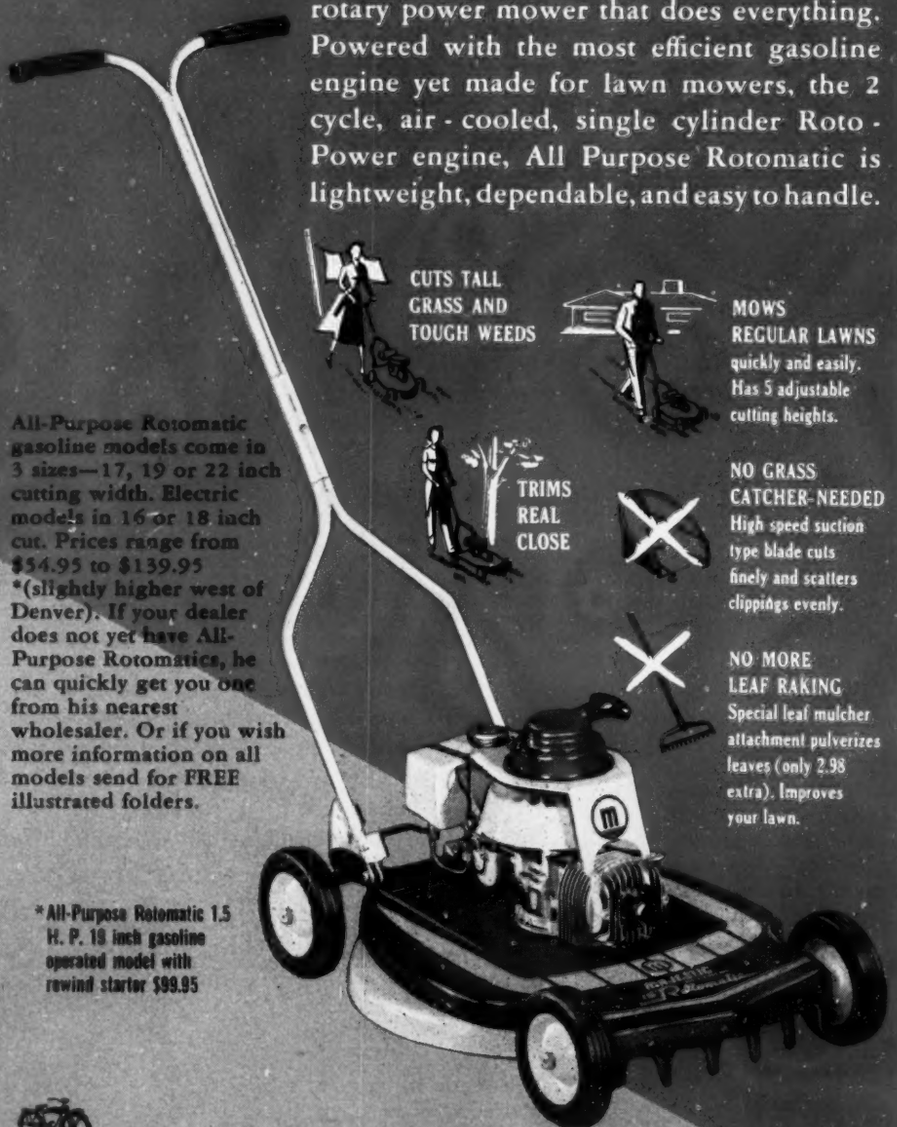

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Manufacturers of the world's most complete line of rotary power mowers and famous Monark bicycles

Readers' Own Corner

The Name Is *Manitowoc*

Dear Editor:

The January FLOWER GROWER mentioned Manitowoc as one of the cities in the nation where major horticultural displays are located. We appreciate this distinction for we are flower minded. But we would like to call your attention to the fact that the name is incorrectly spelled on the map. It is Manitowoc, not Manitowac.

Manitowoc has a population of 28,000. It has very active men's and women's garden clubs, with many individuals specializing in particular flowers. This results in a variety of displays throughout the summer. The tulip display alone annually attracts thousands of visitors.—RUDOLPH E. MENCHL, Mayor, Manitowoc, Wis.

Iris Extraordinary

Dear Editor:

In 1951 I bought a dozen Capitol strain Onocobred iris from Walter Marx Gardens, Boring, Oregon, most of which bloomed last spring. They were the most beautiful iris blossoms I've ever seen: light raspberry with dark veins and a beautiful maroon and black signal spot, giant mulberry, giant brown with darker veins, giant sky blue, sky blue with

New "Flora" of Northeast

• Laymen as well as professional botanists will find good use for "The New Britton & Brown Flora of the Northeastern United States and Adjacent Canada." This three-volume work by Henry A. Gleason, retired head curator, and his collaborators at The New York Botanical Garden contains drawings of each of the 4,660 species described and is the only completely illustrated flora for the area from the St. Lawrence River to southern Virginia and westward to Missouri and Minnesota. It succeeds "Illustrated Flora" by Nathanial L. Britton and Addison Brown which was a standard reference on the subject for 50 years. The new flora comprises three 500-page volumes, bound in green buckram and selling for $30.00 plus 50 cents postage and handling charges. However, orders received from the United States and Canada before July 1, 1953 will be filled for $27.50 postpaid. Address requests to The New York Botanical Garden, Bronx Park, New York 58, New York.

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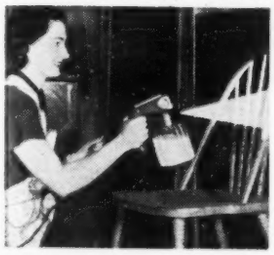

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brown and green falls. The only drawback to these iris is their limited branching, with only two to six flowers on a stalk. The plants seem very hardy (to −7°) and as healthy and vigorous as any regular bearded iris. I do not know if Mr. Marx will offer these this year. I do know that if people knew just how fine they are, he would soon be sold out. I intend to buy, if possible, one of each of the 50 which were offered.—G. T. Scott, Charleston, W. Va.

Persimmons

Dear Editor:

American persimmons—those tasty fruits for home gardens—are in greater supply than the report in Things Out-of-the-Ordinary (February Flower Grower) indicates. Many named varieties are now available as grafted trees, including some which yield sweet fruits weeks ahead of autumn frosts. And we have found, contrary to popular belief, that frosts are not beneficial to persimmon quality.

Two of the best early varieties are Penland and Garretson which mature seedless fruits in the absence of male persimmons. If pollinated, their fruits contain from one to six seeds. George L. Slate reports that Garretson, although small, is the most satisfactory variety he has fruited in Geneva, New York.

Several larger varieties ripen ahead of frost in central Illinois, the best being Killen and Urbana, a slightly earlier and softer-fruited variety which was developed here. Both need pollination by a male American tree.

Male persimmons have been suggested for more general landscape use in this region and they have much to commend them. However, lawn maintenance may be difficult in the shade of older trees if they are headed low or planted too close together. Their self-pruning habit results in a litter of twigs and branches on the ground but much of the deadwood that accumulates can be raked down at one time during the dormant season. Fruiting persimmons are even more ornamental but it is unwise to plant them where surplus fruit will be a nuisance.

Persimmons thrive in a wide range of soils and are noted for their persistence in poor fields and rundown hillside pastures. If spraying and sanitation are neglected, fall webworms, twig girdlers and persimmon borers may be pests. In scattered areas in southeastern states persimmon wilt disease is also troublesome. Therefore, trees should not be moved north from infected areas. The fruits themselves have almost no pests until they ripen fully and are sought by birds and opossums. Hard-ripe persimmons can be picked and allowed to soften in an air-tight container, a method long used in China and Japan.—J. C. McDaniel, University of Illinois, Urbana, Illinois.

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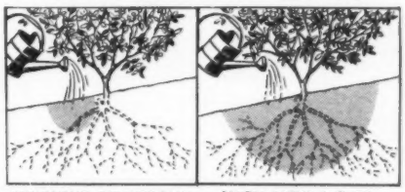

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Plant for Permanence — *by DONALD WYMAN*

Japanese Snowbell

ARNOLD ARBORETUM

WITH one-story homes being built the country over, new home owners are realizing more and more that it's no longer necessary to plant trees that grow to be 150-foot giants. In ever-increasing demand are trees under 30 feet in height, especially those with interesting spring flowers. Meeting both of these specifications is the Japanese snowbell (Styrax japonica), sometimes called the Japanese snowdrop. Indeed, this native of Japan and Korea, which can be grown either as a shrub or small tree, is admirably suited to the grounds of the modern home.

When grown as a large shrub, the Japanese snowbell produces several wide-spreading, gracefully arching branches from the base. A 15-foot bush may have a spread of 20 feet or more. Grown as a tree with a single trunk, the width is not as great. But either way, the dense habit of the plant makes it a good screen, and the delightful flowers on the underside of the branches prove surprisingly beautiful in late May or early June. White, slightly bell-shaped with prominent yellow stamens, the ¾-inch blossoms swing gracefully on long pendulous stalks an inch or more below the branchlets. Since the dark green, fine-textured leaves (1 to 3 inches long by ½ to 1½ inches wide) are borne in a horizontal plane, they do not detract from or hide the flowers hanging below them. For best display of this plant, place it so that viewers will look up at it and fully enjoy the beauty of the blossoms.

The branches, too, are horizontal, giving the tree a decided flat-topped appearance, an effect which goes very well with today's low houses and ideally suits the tree for use beneath electric wires. Pruning which augments this flat-topped habit does not detract the least bit from the tree's natural beauty.

The fruits are small drupes. Though not ornamental, they are often profusely produced. When dried, stored over winter and sown in spring, they produce a fine crop of seedlings. Volunteer seedlings often come up under old trees.

In Japan this tree is native in mountainous areas where taller trees provide light shade during most of the day. Here in America, the Japanese snowbell thrives in the same situations as our native dogwood, and is hardy wherever flowering dogwood can be grown. On the northwest Pacific coast, it also thrives beneath tall Douglas firs, which provide a high canopy of light foliage and cool, moist soil for the roots.

Although it has been growing in the Arnold Arboretum since 1892, this plant is still little known among most amateur gardeners. The reasons are twofold. First, it is difficult to transplant. It's often safest to set it out in its permanent situation as a pot-grown plant. Secondly, while it is young and small, it is susceptible to late frost injury in spring. As a result, some folks who have attempted to grow it have been sadly disappointed. However, neither trait will prove troublesome if pot-grown plants are purchased and the young trees given the best of winter protection the first few years. Afterwards, they seem to be perfectly hardy in normal winters. This plant is a low-maintenance subject in that it has no serious insect or disease pests.

After observing the performance of the Japanese snowbell in the Arnold Arboretum for 20 years, Ernest H. Wilson report that it is one of the most floriferous and beautiful of the smaller trees that can be grown in this climate.

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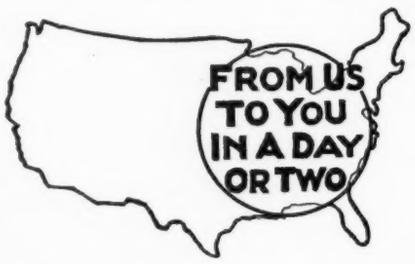
12 plants ppd.	$2.95	Potted plants	$3.75
25 plants ppd.	5.00	Potted plants	7.00
50 plants ppd.	8.50	Potted plants	12.00
100 plants ppd.	15.00	Potted plants	20.00

GROW 50 TO 75 PLANTS IN JUST 6 FEET WITH ALUMINUM PYRAMID GARDEN!

Beautiful...Practical...Non-Rusting. Perfect for Growing Your Red-Rich Strawberry Plants...Postpaid..... **$9.95**

Hillcrest GARDENS

ORDER NOW DIRECT FROM THIS AD
Enclose Check or Money Order
Box B, Albert Lea, Minn.



FIRST-YEAR BLOOMING?

Within this 600 mile radius our vigorous mid-west plants arrive fresh and green. Here they feel "right at home", a condition favorable, by nature, to first-year blooming.
An Ohio customer wrote:
"I do know that iris from Edenwald have much the best chance of blooming the first year."
From Michigan:
"Iris received from Edenwald all bloomed the first season, something I had never experienced from any other dealer."
Be sure to read similar quotes from other "love-letters," printed in our new color catalog of

IRIS and DAYLILIES

LIFT YOUR IRIS PLANTING OUT OF THE COMMONPLACE!
Try this "new-customer quartette." All 4 for $5 ppd. ($7 value)

PINK TALCUM — Flamingo type with tangerine beard..$2.50
DARK MOOD — Tall ruffled black-wine. Striking!.....$1.00
ROCKET — Brilliant deep orange-yellow. Tops!.....$2.00
LAKE SHANNON — Outstanding marine blue.....$1.50

Beautifully printed in color, our catalog lists more fine varieties than any other. It's free to customers and an introductory copy will be sent free to new acquaintances. Enclose a dime if you wish inclusion also in our 1954 mailing.

EDENWALD GARDENS, DEPT. F.G., VINCENNES, INDIANA

GARDEN TIMESAVER

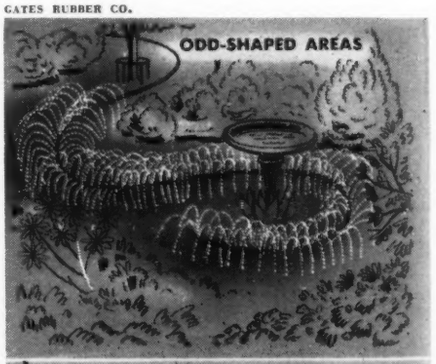
LET'S FACE IT. Doing a good job of watering the garden or lawn takes time and attention—time to let the water soak at least 4 inches into the ground, and attention to the force and direction of the spray, so soil and plants are not disturbed and water is not wasted on buildings, streets or sidewalks.

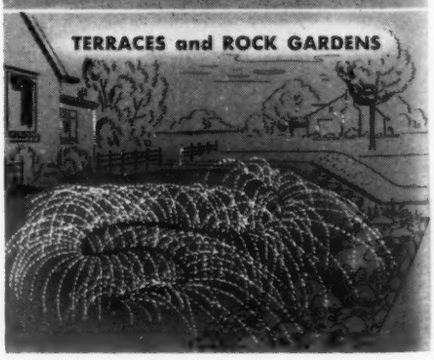
Now along comes the kind of device that considerably cuts both the time and attention needed to water an area thoroughly. Looking like a piece of bright green hose, it is made of plastic tubing, 25 feet long with pin-size holes or slits. Just attach this tube to your regular garden hose, turn on the faucet and 1,000 tiny streams water the area in which the tube is laid. While the fine mist gently soaks into the soil, you can go about your other gardening tasks confident the sprinkler is doing its job.

This portable watering system is flexible and can be coiled on the ground around trees or shrubs, curved in odd-shaped areas or maneuvered into hard-to-get-at locations which formerly had to be watered by hand. Properly placed, it puts the water where you want it. There is no splashing, no washing of soil, no breaking over of plants or injury to fragile flower petals. The fine mist eliminates run-off and soaks in faster than coarser sprays.

The flexible sprinkler has other advantages, too. It is durable but lightweight —only 25 ounces, which makes it easy to move about, even when the water is turned on.

GATES RUBBER CO.



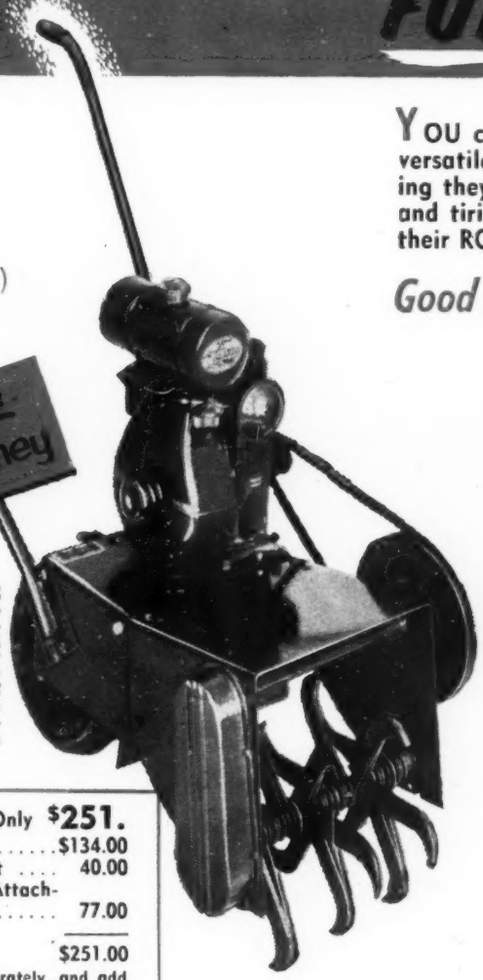


ROTO-HOE... *the machine that puts the FUN in Gardening*

GARDEN TOOLS

2 h.p.
Complete
ROTO-HOE
Basic Unit (as shown)
only $134

more machine for your money



You can afford ROTO-HOE without straining your family budget. Tremendous consumer demand has enabled us to maintain the low, low 1947 price of only $134, for complete basic ROTO-HOE unit shown. Attachments are equally low priced. Hundreds of dealers in U. S. and Canada glad to serve you.

Look What You Get For Only	$251.
ROTO-HOE, complete	$134.00
ROTO-CUTTER Attachment	40.00
ROTO-ZEPHER SPRAYER Attachment	77.00
	$251.00

You can get any of these separately, and add others as you desire.

YOU can really enjoy your gardening efforts with this versatile, efficient tool. Many home gardeners are finding they get real relaxation and enjoyment after a hard and tiring day at their regular jobs—by gardening with their ROTO-HOE and its attachments.

Good Health Requires Relaxation

In the rush of modern living more and more people are learning that their doctors are right—it is important to one's health to have active physical participation in some good hobby. And plenty of folks feel that gardening is one of the best hobbies—but it can be hard work without the use of proper tools. So let ROTO-HOE do the hard work for you—you get the healthful relaxation without the tiresome difficult work.

ROTO-HOE *is easy to operate*

Powerful Lauson 2 h.p. gasoline motor rotates 15 specially hardened teeth at high speed, thoroughly loosening, cultivating and aerating soil to 6" depth—pulling ROTO-HOE forward. You simply guide it, lift rotors out of ground whenever desired by light pressure on handles. Hard work is eliminated.

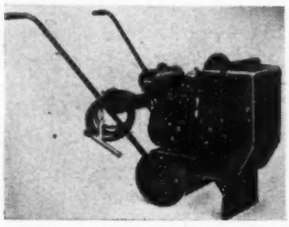
GET THE FACTS—You'll be glad you did!

You will find, as have thousands of other gardeners in U. S. and Canada, that ROTO-HOE offers many features you want—at remarkably reasonable prices. Buy the basic unit (or any combination) now, add attachments as desired later. Your ROTO-HOE dealer will gladly demonstrate for you. See him today. Or write us for free color folder and nearest dealer's name.

Low-Cost Attachments Give Year Round Usefulness

Roto-Cutters. 12", 16" and 20" sizes; cost $24 to $40.
Roto-Sno Blower; costs only $38.
New Safe-Speed Edger; $39.50.
Adapta-Tool Cart; only $14.50.

Most recent attachment is . . .



NEW ROTO-ZEPHYR SPRAYER

An ideal high quality at low cost attachment for spraying trees and plants around home and garden. The Bonderized and enameled 5-gallon tank attaches to the standard ROTO-HOE power unit in minutes; you can easily wheel sprayer wherever wanted. Piston type bronze pump has screen and relief valve, operates from ROTO-HOE's powerful Lauson motor. Spray gun is modern in design, light weight and foolproof. This complete ROTO-ZEPHYR Sprayer attachment costs only $77. to add to basic unit—or may be purchased separately. See your ROTO-HOE dealer.

ROTO-HOE & SPRAYER COMPANY
BOX 1 NEWBURY, OHIO

use this coupon

ROTO-HOE & SPRAYER CO.
Box 1, Newbury, Ohio

Yes, I want the facts about ROTO-HOE and attachments—how it can give me more of the FUN in Gardening. Send your free color folder at once.

Name .....

St. or R. D. .....

City ..... Zone.... State.....

SEEDSMEN SINCE 1818
BRECK'S

IS MAIL ORDER HEADQUARTERS FOR SUPPLEX FLEXIBLE SPRINKLERS

We've been watching garden items come down the pike for 136 years, but we've never seen one to beat this for sheer efficiency and economy. 50-foot length sprinkles 1,000 square feet at once! We have both the 25-foot length at $3.98, and the 50-foot length at $5.98—in stock, ready to ship to you at once, postpaid. And backed by BRECK'S famous guarantee of satisfaction or money back. Rush the coupon now!

SEEDSMEN SINCE 1818
BRECK'S
278 Breck Building
Boston 10, Mass.

Please rush me, postpaid, the following Supplex Flexible Sprinklers:

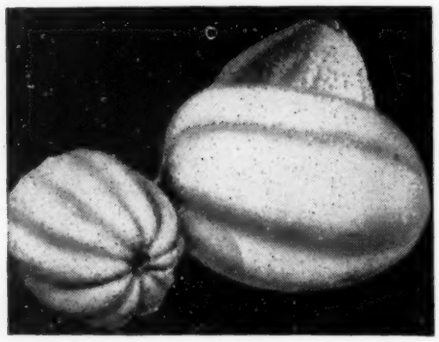
... 25-ft. lengths (HT474) $3.98 ea. $...

... 50-ft. lengths (HT475) $5.98 ea. $...

Name .....

Address .....

City .....Zone.....State.....



NEW Squash Varieties from Gill Brothers

NEW GOLDEN PIPPIN *(above)*. Try this fine new squash developed by us. Average weight 1¼ to 1½ pounds...deep-yellow, fine-grained, sweet meat. Good keepers when fully ripe...also ideal as summer squash when picked early. **Postpaid: Pkt. 20c; ½ oz. 40c; oz. 75c; ¼ lb. $2.25.**

SUGAR HUBBARD combines fine-grained sweetness of Sweet Meat with large size and shape of the Hubbard. Flesh is thick ...skin blue-grey. Will easily keep one year. **Seed supply is limited—packets only at 20c each.**

SWEET MEAT — flavor and sweetness increase with age... will keep from one season to the next. Average 8 to 12 pounds. **Postpaid: Pkt. 15c; ½ oz. 30c; oz. 50c; ¼ lb. $1.35; lb. $3.50.**

Send for big, new 1953 catalog and Squash Bulletin — FREE

GILL BROS. SEED CO.
Dept. F.G. Montavilla Station
PORTLAND 16, OREGON
Retail Stores in Portland and Seattle

May Pointers

TIPS FOR NORTHERN GARDENERS

by P. J. McKENNA (N. Y.)

THIS is the last month for planting hardy materials. A sudden shift to warm weather in late May will handicap newly moved trees, shrubs, fruits, roses or herbaceous perennials which have not had a chance to become established. The struggle to make new roots to support rapidly growing tops may be too much for many plants and therefore their tops should be cut back to reduce the strain. Moving a plant causes buds near the top to lose moisture and oftentimes, after a feeble start into growth, they dry up. Pruning the top growth back forces new shoots from lower on the stem and these make a better plant. Cut root tips back, too.

The setback caused by transplanting can be greatly reduced by using one of the fertilizers made for liquid or foliage feeding. Dissolve two tablespoons of the fertilizer in one gallon of water and dip the roots in the solution before planting, or, pour it over the roots after some soil has been worked around them. Use one pint per shrub.

Vegetables

The trend in vegetable and fruit growing is to select and develop varieties with high vitamin and mineral content, rather than those with merely an obvious eye and taste appeal.

The first tomato to have an especially high vitamin C content is Doublerich which was developed at the New Hampshire experiment station. Salad Bowl is more nutritious than the other lettuces. Kale and watercress are also good food values, but upland cress rates almost as high. Upland cress seed can be sown from April until August. You can also buy seed of a thick-leaved dandelion variety which has a high iron content. All greens are more nutritious in the tender stage.

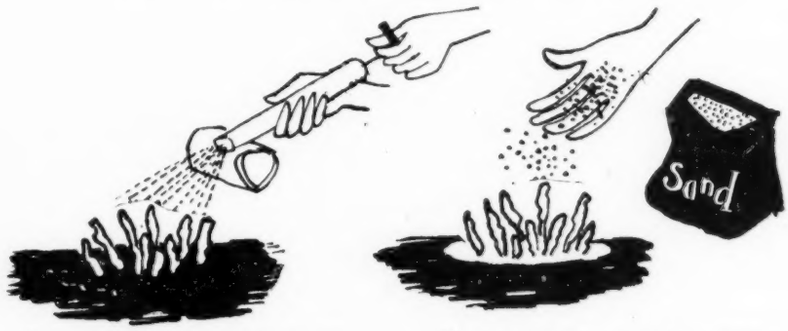
Vitamin C has been measured in strawberries, too. Those with the highest content are Fairpeake, Gandy, Catskill and Premier; the lowest is Aberdeen. However, conditions at the time of ripening influence the amount. Vitamin C increases if the nights are cool and the days sunny. The black currant, more common in Canada than here, is supposed to contain more vitamin C than any other fruit.

Breeding alone will not produce the desired results, according to scientists. The soil must be improved too. The old 3-element fertilizer of nitrogen, phosphorus and potash will be revised to include so-called trace elements, often depleted from soils.

Primroses

More and more primroses are being grown in American gardens. They can be seen now among tulips and other spring flowers, most of them truly perennial and hardy varieties better suited to our conditions than those originally imported from Europe. Although primroses, or primulas, prefer a little shade, many will take full sun. Several varieties in my own garden have been growing entirely in the sun for two years. They get plenty of moisture in summer, of course, and the soil is well supplied with leafmold. I find, however, that peatmoss is

HOW TO CONTROL PEONY DISEASES



Spray Bordeaux mixture on young peony shoots when they are well above soil. Spray again in two weeks. Cut wilted shoots.

If last year's peonies were badly infected, replace 1 inch of soil around stems with sand. Then wet sand with a fungicide.

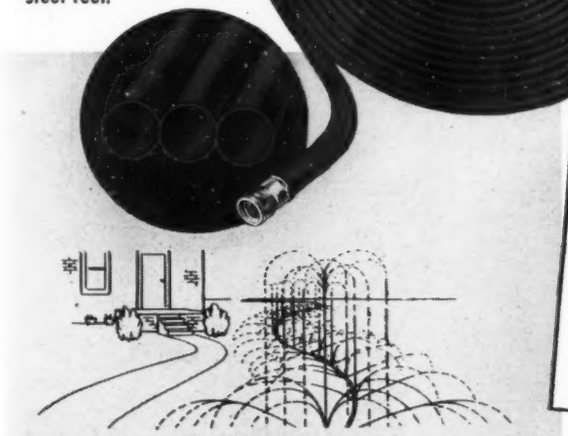
RAINFALL *when and where you want it!*

25 foot length, covers 25 ft. by 25 ft., a rectangular area of approximately 625 sq. ft.
$3.98

50 foot length, covers 50 ft. by 20 ft., a rectangular area of approximately 1,000 sq. ft.
$5.98

Both with galvanized steel reel.

Imagine! You just turn it on . . . walk away and leave it . . . and it waters up to a 50 by 20 foot area *properly* in one operation with as little as 25 pounds water pressure! What's the secret? The SUPPLEX Flexible SPRINKLER and SOAKER is a seamless triple tube of tough vinyl plastic, with hundreds of openings in the upper side to spray water at exactly calculated angles. It sprinkles water UPWARD ONLY, spreading a gentle, even "rainfall" that won't wash out loam or seedlings. Turn it over and it soaks DOWNWARD ONLY, wetting soil around trees and shrubs without wetting foliage and flowers. No metal parts to rust or corrode, can't clog up in action, won't rot or mildew even when stored wet. It's the most revolutionary Sprinkler ever developed — see it at your dealer's now!



Exclusive triple tube design guarantees that the Sprinkler will always lie flat, even when curved in or out, up or down. Cover any shape garden or lawn, put water just where you want it . . . and only where you want it!

Pat. Pend.

SUPPLEX® tuff-ply GARDEN HOSE

The Only All-Plastic Garden Hose YOU CAN SHUT OFF AT THE NOZZLE and leave under full pressure FOR DAYS, because it is reinforced with a braid of tough rayon tire-cord. It is 2/3 lighter than rubber hose, and delivers 50% more water. Guaranteed *in writing* for 10 years!

On Sale at Hardware and Department Stores, or write for names of Supplex dealers nearest you.

Industrial Synthetics Corporation
GARWOOD, NEW JERSEY

Health *and* Beauty...

Rich, radiant, lustrous flowers of rare color and beauty cannot grow in soil poor in minerals. Soil containing sufficient minerals produces healthy productive plants. Minerals are just as essential to healthy plants as they are to the human body — You don't neglect your own health—but how about the health of your plants? ES-MIN-EL contains these essential mineral elements: Boron, Copper, Manganese, Iron, Zinc and Magnesium. For healthier plants and rich, radiant, beautiful flowers, apply ES-MIN-EL to your soil today!

ES-MIN-EL

SOIL APPLICATION

ES-MIN-EL is now available in spray or dust form. If you haven't mineralized your soil, you can now feed these essential minerals to your plants through the leaves and stems.

ES-MIN-EL spray or dust is a neutral form of Copper, Manganese and Zinc.

ES-MIN-EL Essential Mineral Elements TC SPRAY OR DUST

FREE BOOKLET—Send card or letter to Tennessee Corporation, Grant Bldg., Atlanta

TENNESSEE CORPORATION

617-29 Grant Building, Atlanta, Georgia

just as good. Don't overfertilize. Dried or shredded cattle manure mixed with superphosphate, four pounds of the mixture per 100 square feet, seems to suit them.

The polyantha hybrids are the easiest and most colorful of the group. Some plants flower in autumn as well as in spring. The Ellen Carder strain from New England is not only hardy but has a good color range. Collosea, a mixed lot, has large flowers. Monarch, a strain of P. auricula, gives flowers perfect in form with many markings. Shades of yellow and white characterize the Munstead strain, an offshoot of P. veris. All of these and many new creations from Europe and Canada are sold by nurseries.

If you plan to grow primulas from seed, get fresh stock in June or July. Scarify the seeds by rubbing them lightly between two pieces of rough wood. This helps sprouting. Shade seedlings until they can be transplanted and give young plants some protection through the first winter.

Chrysanthemums

If you want chrysanthemums for cut flowers, select them purely on that basis. Many varieties are good only for garden use. The following are tops as cut flowers: White—Classic, Horizon, White Wonder; yellow—Goldrush, Bright Forecast, Polaris, Treasure; bronze—Mogul, Firecracker, Huntsman, Panorama, Carmelite; pink—Spellbound, Lassie, Sweetheart, Enterprise, Elizabeth Hood.

Set rooted chrysanthemum cuttings or divisions in large groups in the flower border or in a bed by themselves. They need individual attention and should be set 15 to 18 inches apart. After three weeks apply 5-10-5 fertilizer, three pounds per 100 square feet, and pinch out the tips of all shoots. Provide lots of water throughout the growing season.

Peonies

Peonies infected with blight or other fungus disease last year will be diseased this year too. Spores remain in the soil all winter and when the shoots push through the soil in spring they pick up the spores. Blight turns the buds black. Spray infected plants with Bordeaux mixture when the shoots are well through the soil. Make another application two weeks later. If the plants were badly infected last year it is best to also remove 1 inch of soil from around the roots and replace it with sand. Wet the sand with a fungicide mixed according to directions. Cut out badly wilted young shoots at ground level. Sterilize the knife each time a cut is made by dipping it in alcohol.

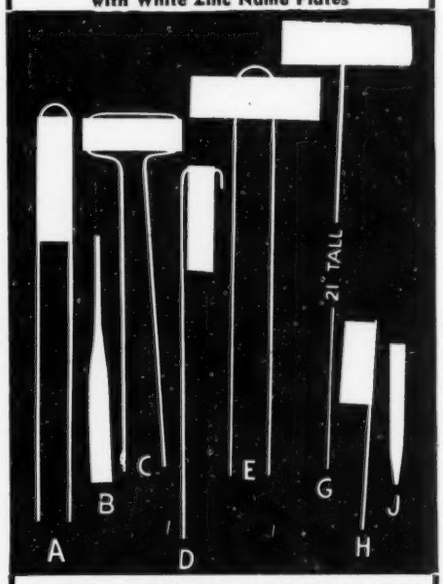
Annuals

Bells of Ireland (molucella) is increasing in popularity. Florists include it in

Galvanized Steel

GARDEN MARKERS

with White Zinc Name Plates



KNOW your FLOWERS. Mark with a pencil. Names stay on. Enjoy your garden more.
ORDER NOW WHILE AVAILABLE

8 DIFFERENT STYLES

Prepaid: Add 10% west of the Rocky Mts.

A—12 INCH HAIR PIN TYPE

3-inch lock-rim. Name Plate which can be replaced in a jiffy. Look neat in the garden, nice for Iris and Roses.

Doz. 60¢; 20 for $1.00; 100 for $3.50
Extra lock-rim name plates 1½¢ each

B—7 INCH LABELS WHITE ZINC

Permanently mark trees, shrubs and plants. Pencil marks stay through rain and snow.

Prepaid 25 for 40¢; 100 for $1.00; 500 for $4.00

C—GARDEN MARKER

9 inch steel wire standards and shielded WHITE-ZINC NAME PLATE which may be marked on both sides. You will like this improved marker.

Prepaid Doz. 60¢; 20 for $1.00; 100 for $3.50
Extra Zinc Plates Without Wire 1¢ Each

D—11" SWINGING LABEL

3-inch Zinc Name Tab secured to 11 inch STEEL Standard, adjustable, nice for tulips.

Doz. 40¢; 30 for $1.00; 100 for $2.50
Replacement Tags $1.50 per 100
Special Weatherproof Pencil 10¢

E—11½" OK ROSE MARKER

Name plate has wide flanges with four accurately spaced holes thru which stiff STEEL standards freely slide up over the tilt into secure position. A new plate can be put on easily. The price is a little higher for this better marker but worth it.

Doz. 70¢; 18 for $1.00; 100 for $4.00
Name Plates Without Wire 2¢ Each

G—21" TALL for home garden easy to read

Same name plate as OK ROSE (Replaceable). Single Wire Staff. For Tulips, Glads, Iris, Day Lilies, Tea Roses, showing well above foliage, no samples.

Prepaid 25 for $1.50; 100 for $4.80

H—6" POT LABEL for Rock Gardens

USEFUL IN THE GREENHOUSE

"Handy as a pocket in a shirt." Penciled names defy moisture, heat and weather. Neat, Modest and Durable. Strong Steel wire sticker. White Zinc name plate. Low cost permits generous use.

Prepaid 40 for $1; 100 for $2.20
Extra name plates not available

J—4" VIOLET LABEL

Made for African Violets and other small house plants. Useful to the hybridizers for labeling cuttings. Pointed WHITE ZINC strip 7/16x4".

2 Doz. 25¢ 100, 80¢ 1000, $5

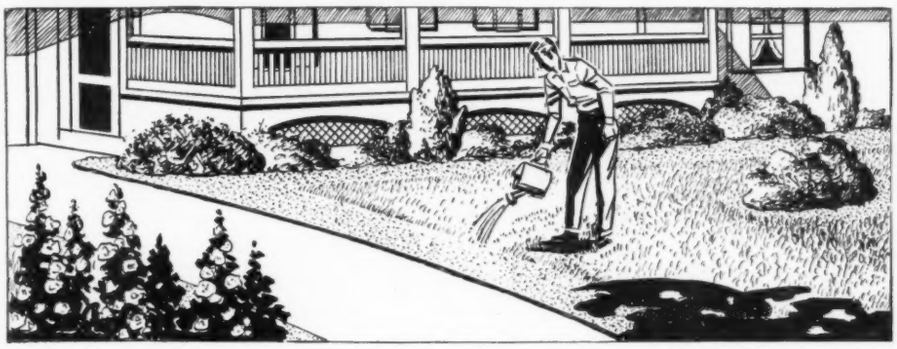
TRIAL KIT To acquaint new customers with our markers and labels we prepay Three each of A, C, D, E, H, and 25B together with a weatherproof pencil all for $1.00.

EVERLASTING LABEL CO.

Box 93, PAW PAW, MICH.

Mow lawn edges only 1 or 2 times a year!

Stop-Grass, the chemical grass trimmer, ends tiresome drudgery. No more back-breaking work of edging lawns and driveways on your hands and knees in the hot sun! Just apply STOP-GRASS with sprayer or sprinkling can!



New Kind of Product!

Never before has there been anything like STOP-GRASS! When sprayed on grass early in the Spring it makes the grass grow so slowly it does not have to be cut for *4 to 5 MONTHS!* If the early Spring spraying is missed, later Spring application slows growth so that cutting won't be neded for 4 to 6 weeks or even longer!

Saves Mowing on Connecticut Parkways!

When this material was sprayed on grass areas along Connecticut parkways early in the 1951 season, and the grass cut about a week later, *no other mowings were needed from June right through September.* When the equivalent of half-strength STOP-GRASS was sprayed on roadside grass areas early in May, followed by one mowing 3 weeks later, the grass grew so slowly that no more cutting was needed all season. *But 19 mowings were needed on adjacent grass areas which had not been sprayed!*

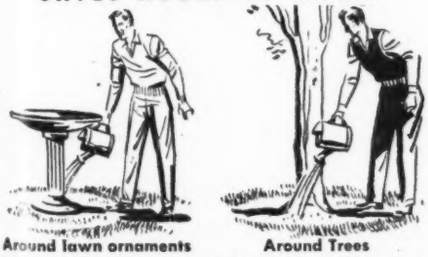
Saves Grass-Cutting in Ohio, Illinois, Texas!

When this material was sprayed on roadside grass areas in Ohio, on grass around cemetery monuments in Chicago, and on certain grasses in Texas, growth was so slow that only 1 or 2 cuttings were needed.

Fall Spraying Delays Growth in Next Year!

Even more amazing is the fact that spraying grass in the *late Fall* will delay grass growth *in the next year* so that only 1 or 2 mowings may be needed all season long!

SAVES HOURS OF WORK!

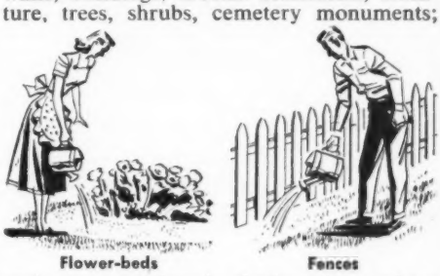


Around lawn ornaments — Around Trees

Think of the hours of back-breaking work you can now save! Instead of repeatedly edging and trimming grass in difficult-to-mow places, you can now let STOP-GRASS do most of the work for you!

Many Uses for STOP-GRASS!

Use STOP-GRASS in 6 to 12 inch strips on grass along edges of lawns, flower-beds, driveways, curbs; next to hedges, fences, walls, buildings; around ornaments, furniture, trees, shrubs, cemetery monuments;



Flower-beds — Fences

and on grass edges in similar places where mowers won't work or where tiresome mechanical edging is needed. It may also be used generally on certain grass areas such as vacant lots, roadsides, and on waste grass areas where height of grass must be kept low. If broad-leaved weeds are present in Spring, STOP-GRASS can be combined with 2,4-D amine salt.

Fully Tested! Developed by Famous Co.!

STOP-GRASS contains maleic hydrazide, the new chemical developed by the research laboratories of the great Naugatuck Chemical Division of the U. S. Rubber Company. In cooperation with prominent Universities, the U. S. Dept. of Agriculture, and many other leading organizations, maleic hydrazide has been extensively tested and proved for slowing down the growth of grass to save tedious hours of work in mowing lawn edges and other grass-cutting applications.

Supplies Limited. ORDER TODAY!

Be sure to have Stop-Grass on hand early when you will need it! Supplies are extremely limited!

1½ oz. for 800 ft. 6 in. wide (400 sq. ft.) $1.00
4 oz. for 2200 ft. 6 in. wide (1100 sq. ft.) 2.25
1 lb. for 8800 ft. 6 in. wide (4400 sq. ft.) 6.00

Stop-GRASS

Trade mark

The Chemical Grass Trimmer

Makes TOMATOES Ripen 1 to 3 WEEKS EARLIER

NO-SEED HORMONE

Blossom-set

You can pick RIPE tomatoes, WEEKS EARLIER than your neighbor! You'll get BIGGER yields of LARGER, MEATIER, more DELICIOUS TOMATOES.

SEEDLESS TOMATOES, too!

EASY TO USE!

Just Spray the Plants with An Ordinary Sprayer!

STOPS BLOSSOM DROP!

MAKES BLOSSOMS SET FRUIT!

Early tomato blossoms often drop off the plants without setting fruit if they are not pollinated properly, especially early in the season when nights are cool and days are short and cloudy. Spraying with BLOSSOM-SET keeps blossoms on plants. The hormone starts fruit development immediately by chemical stimulation of the flowers. These flowers set fruit instead of dropping off; they develop into ripe tomatoes *weeks earlier* than unsprayed flowers. Tomatoes are larger, meatier, firmer, better-tasting. *You've never tasted such wonderful tomatoes!* They possess better shape and color and there are more on each plant. Many are SEEDLESS because fruit is set chemically, not by pollen.

Try a bottle and see for yourself! Be sure to leave some plants unsprayed and compare the results. Your neighbor will be amazed!

4 oz. bottle makes 1 gallon ..... 75¢
1 pint makes 4 gallons $1.75
Agric. Conc. makes 50 gallons 5.95

BERRY-SET

Hormone for Bigger STRAWBERRIES!

Raspberries, blackberries, too! If you want bigger, sweeter, meatier berries; berries that bear longer, taste better; you'll want to spray them with BERRY-SET.

Imagine getting berries **50 to 100% Bigger!** Imagine eating bigger, meatier, more luscious-tasting strawberries **with fewer seeds!** And you harvest the berries over a longer period of time. Much bigger yields, too.

Just spray plants in blossom stage and you'll get luscious berries like these.

1 oz. makes 4 gals.... 50c
3 oz. makes 12 gals....$1.00
12 oz. makes 48 gals....$3.00

Take-Hold Plus

PLANT FOOD Plus HORMONE

MAKES PLANTS GROW UNBELIEVABLY *FAST!*

Plants mature earlier, bear longer, have more luxuriant foliage, bigger and more beautiful blooms, bigger fruits, greater vigor!

TRANSPLANTS "TAKE-HOLD" MUCH *QUICKER!*

Resume growth faster; need fewer replacements; develop better, stronger root systems much faster. 250 tomato plants were set out on a hot, sunny, mid-afternoon; not a one wilted; not a one had to be replaced. They had been set out with Take-Hold PLUS!

DISSOLVES QUICKLY, COMPLETELY, IN WATER!

VERY HIGH ANALYSIS! 10-52-17! Contains more plant nutrients than most all others. Add up the analysis! 10% Nitrogen; 52% Phosphoric Acid; 17% Potash. **79% active,** immediately available plant nutrients! PLUS a root-developing **hormone!**

USE TAKE-HOLD PLUS FOR EVERYTHING THAT GROWS!

Wonderful for **TOMATOES . . . ROSES . . . STRAWBERRIES** . . . and all FLOWERS, VEGETABLES, TRANSPLANTS, LAWNS, EVERGREENS, HOUSEPLANTS. Marvelous for **AFRICAN VIOLETS!** And for rooting of cuttings, too!

4 oz. can makes 4 to 8 gallons 50c
12 oz. can makes 12 to 24 gallons ..... [illegible]
2 lb. can makes 32 to 64 gallons ..... [illegible]
5 lb. can makes 80 to 160 gallons 4.50

If your dealer does not have the products described on this page, ORDER DIRECT FROM

SCIENCE PRODUCTS COMPANY 1230 E. 63rd St. Dept. F-53 Chicago 37, Illinois

No Stamps, No COD's . . . Please!

STASSEN

"HIDDEN TREASURE" TULIPS

Discover this treasure of hidden beauty for your garden and floral bouquet—They're "Hidden Treasure" Tulips. As the tulip cups open, hidden charm in magnificent color combinations are exposed to view—some with brilliant halos, some with inside petals ablaze with contrasting colors.

Genuine treasures among the May-flowering, tall-stemmed Tulips are:	10	50
ECLIPSE. Outside deep blood-red. Same color inside with intense, dark blue heart surrounded by clear, white halo	$1.15	$4.90
GEORGE GRAPPE. Outside lavender-blue. Same color inside but with a small white heart circled by a border of bright royal blue	1.10	4.75
INGA HUME. Exterior red with yellow edge. Interior deep yellow slightly sprayed red. Large, black blotch at base of each petal	.95	4.10
MADAME BUTTERFLY. Outside lilac with light edges. Inside grey-violet with a perfectly rounded base of azure blue, bordered white	.95	4.10
MARSHALL HAIG. Outside brilliant scarlet. Inside same color but with a sharply outlined, triangular-shaped heart of golden yellow	1.20	5.10

ORDER THESE STRIKING TULIPS NOW!

Get fresh, top quality tulips, direct from Holland, where they are specially packed by experts. They'll be delivered in September, postpaid.

50 TEN EACH OF ABOVE FIVE POSTPAID **$4.60**

5 of each **25 for $2.50** postpaid

(See Peacock Tulip offer in front of book.)

STASSEN FLORAL GARDENS, INC.
DEPT. 17A ROSLYN HEIGHTS, N. Y.

Merrily You Roll Along

with a fast-cutting, easy-running

BOLENS Power Mower

Grass-cutting is a snap and a pleasure with a sensational Bolens Power Mower. Compare for features and price. You can't match them for *easy, smooth handling; efficient cutting;* and *horsepower* to mow down the toughest growths. *Perfect balance, adjustable cutting heights,* and *safety guards* are only a few other superior qualities. There's a model to fit your needs at a price that fits your purse.

Before you buy, look up your Bolens dealer and try one of the new Bolens Power Mowers. Write us for FREE literature.

Amazing Grind-a-Leaf attachment turns leaves into rich, organic fertilizer. Eliminates hauling, burning, and raking.

BOLENS PRODUCTS DIVISION
Food Machinery and Chemical Corporation
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bouquets and the stems of clustered green bells are in great demand for flower arrangements. Molucella grows 2 to 3 feet high and the stems take on attractive shapes when not tied and staked. Tall plants, however, topple over and the stems should be staked and tied half way up. Sow seed in late April or early May, then transplant the seedlings 12 inches apart in the garden proper. Occasional feeding with liquid fertilizer and summer watering help the plants.

Ornamental grasses are not as widely used as they could be. The annual kinds can be dried for winter and many can be dyed. Cloud grass, some 18 inches tall, is useful fresh or dried. Quaking grass, its heart-shaped seeds constantly in motion, is used like gypsophila. The taller fountain grass has purple plumes and bright green foliage. Stipa or feather grass bears long feathery plumes. Sow grass seed outdoors and thin seedlings to stand 9 to 12 inches apart.

Coldframes

Seeds sown in March or early April can now be pricked off in flats, small pots, or better still, 2¼-inch plant bands (bottomless square containers made of thin veneer). Lettuce, cabbage, cauliflower, broccoli or celery seedlings are held until hardened enough to be set in the garden. Tomatoes and peppers need more protection and are better thinned out where they are and left in the frame for another month. The same applies to seedlings of half-hardy or tender annuals.

The emptied frame can then be devoted to seeds of early cucumbers, melons or squash. Use 3-inch plant bands for these and thin seedlings to one in each band. When the weather is warm enough set them in the garden, planting band and all without disturbing the roots.

As the sun becomes warmer it is necessary to shade the glass. Make a lime wash with a little salt sprinkled in to help make the solution stick. Apply it with a brush or daub it on with a cloth. The resulting subdued light and lowered temperature within the coldframe make conditions ideal for seed germination and later growth of young plants. Tender annuals can also be sown in the frame and either pricked into bands or transferred directly to the garden.▶

New Glad Booklet

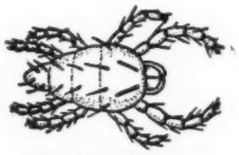
• A new 24-page booklet, "Growing Gladiolus in North Carolina," has just been published by the Agricultural Extension Service of the North Carolina State College at Raleigh. The cover, a full-color photo of the fiery orange Atom gladiolus, is a reproduction of FLOWER GROWER's February, 1949, cover. For your free copy, write the college, requesting Extension Circular #373.

Kills the Pests that DDT Doesn't

D & P LINDANE-ARAMITE EMULSION

A POWERFUL NEW WEAPON IN INSECT CONTROL

Gets Mites and Aphids in One Operation
Provides Excellent Control of Many Other Insects



RED SPIDER

Red spiders and spider mites are just too tough for DDT! Even worse, DDT kills off the natural enemies of red spiders and spider mites, making these pests an increasingly serious problem. Roses and ornamental fruit and shade trees are hardest hit. Red spiders multiply by the millions, in 3-day cycles, attach themselves to the tender underside of leaves, draining them of life-juices and leaving them yellow, brown . . . dying.

APHID

New D&P LINDANE-ARAMITE EMULSION is a marvelous aphid killer, too. Provides residual control lasting several weeks. Especially effective for holly leaf miner, birch leaf miner, leaf miners in boxwood, elm leaf beetle, cankerworms, and thrips.

CANKERWORM

NOW . . . New D&P LINDANE-ARAMITE EMULSION gets red spider mites AND aphids in one operation – doesn't upset the "natural balance" between them, leaving mites behind to ravage your plants undisturbed. A major development in the home gardening field. And new D&P LINDANE-ARAMITE provides excellent control of the other principal insect pests.

Mail coupon today for YOUR supply of this powerful new insect control weapon. MONEY BACK GUARANTEE!
Special Offer: 8 oz. bottle $1.75 • 1 gal. can $13.00

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"It's a Dependable Product if it's D & P"

DON'T DELAY!
MAIL COUPON TODAY!

DOGGETT-PFEIL COMPANY
Springfield 3, N. J.

Please rush me my supply of D&P LINDANE-ARAMITE EMULSION. If not satisfied I will return unused portion any time within 60 days for full purchase price refund. Check size desired:

☐ 8 oz. bottle (makes 6 gallons of spray).....$1.75
☐ 1 gal. can (for larger gardens).....13.00

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☐ CHECK HERE TO SAVE MONEY! Enclose payment with order and WE pay all postage and shipping charges. Same money back guarantee.

ActivO

is a rich, moist humus teeming with billions of Nature's own vital organisms — and fortified with hormones, vitamins and minerals. It's called a "soil energizer and compost activator".

ActivO

plants wonder-working, balancing, nutrient-conserving, **living** organisms in the right **proportion** in your soil or compost. And the hormones and vitamins invoke a controlling and vitalizing action most soils lack.

ActivO

is used to pep-up and vitalize potting soils, mulches, dressings, conditioners and fertilizers. . . . It turns waste into rich humus — in a very short time at low cost — so easily!

ActivO

makes compost even out of sawdust and soot! Makes possible the use of garbage and similar material, for its dynamic organisms stop odors while digesting such materials in as short a time as three weeks!

ActivO

makes compositing possible ANY MONTH OF THE YEAR—indoors in an ingenious composter cabinet; or outdoors by row, sheet or heap methods. Free plans for building a Composter Cabinet are given with No's 25, 50 and 100 sizes.

ActivO

makes your chemical fertilizer go many times farther — "stretches", conserves, softens, activates and organically blends it. . . . . Complete details on ALL the valuable uses are given with every package.

ActivO

speeds hot bed performance, aids mushroom production, and reduces odors in outdoor toilets while converting waste to an ash-like fertilizer-humus . . . helps in septic tanks and cesspools, too.

ActivO

has many imitators but no substitutes! There's nothing exactly like it; nothing "just as good". At progressive dealers, $1 to $19.95. An ideal trial size is the $2.59 (prepaid) which activates 1350 to 1700 lbs. compost or energizes up to 2400 lbs. fertilizer, soils, mulches, etc. If dealer doesn't have size you want, clip bottom portion this column, write name and address on margin, and MAIL order with remittance NOW to

BENSON-MACLEAN

BRIDGETON 46, INDIANA

Dahlia Trials for 1953 Honor Roll

Now is the time for all good gardeners submitting new dahlia seedlings for 1953 FLOWER GROWER test trials to send them to the four official testers. Their test gardens, located in New York, Georgia, Illinois and California, are now being readied to receive these candidates for the 1953 FLOWER GROWER Dahlia Honor Roll, which will appear in the January, 1954, magazine.

These dahlia trials have been conducted by FLOWER GROWER for 17 years now, and are one of the three nationally accepted methods for determining the worthiness of new dahlia varieties. The other two methods are the Trial Garden Tests and the Show Seedlings Sweepstakes, both of which are conducted each season by the American Dahlia Society.

In the FLOWER GROWER trials (as in the other two testing procedures), varrieties are scored on official A.D.S. score cards. If a variety is judged better than existing varieties in commerce in such characteristics as color, form, size, stem, foliage, substance, uniformity, bloom position and general distinctiveness, and on the basis of these criteria receives 85 points or more out of a possible 100, it is placed on the FLOWER GROWER Honor Roll as worthy of introduction and sale to the public. The varieties listed on this Honor Roll each year are invariably among the most sought after dahlia novelties the season following.

It is requested that growers and introducers send in their candidates for this year's Honor Roll *before May 25*, packing them carefully to insure safe arrival. It is best to send them special delivery, marked "Fragile—Outside Mail," so that the stock is not placed beneath heavier packages and crushed. Send two roots or three plants of each variety and no more than three varieties. If stock is available, ship varieties to all four testers. All stock, of course, should be disease-free and healthy.

It is also earnestly requested that only distinctive, superlative seedlings be sent. A mediocre dahlia only takes up valuable space in the test gardens and disappoints everyone concerned. One last instruction: advise testers well in advance of shipping exactly what plants you are sending so planting space will be reserved. List the number, type, color, size and bush height of each variety.

The addresses of the four testers are as follows. EAST: Lynn B. Dudley, 25 Irving Place, New Rochelle, New York. MIDWEST: J. Louis Roberts, 12147 Harvard Avenue, Chicago 28, Illinois. WEST: Richard T. Eddy, Box Bin 9, Encinitas, San Diego County, California. SOUTHEAST: C. E. Faust, 3532 Piedmont Road 1, N. E., Atlanta, Georgia.▶

IRIS SPECIAL

Make your own collection:

Any 5 for $2.00; any 10 for $3.85; any 20 for $7.50; any 35 for $12.75; any 50 for $17.50; all 66 for $22.50 postpaid

AMIGO—Velvety blue and pansy purple
AZURE SKIES—Lovely ruffled sky blue
BERKELEY GOLD—Gigantic deep gold
BIRCHBARK—Sparkling snow white
BLUE SHIMMER—Finest blue plicata
BUCKSKIN—Shimmering buckskin tan
CALIF. GOLD—Huge bright yellow
CHINA MAID—Glorious lilac pink
CLARET VELVET—Deep wine red
COPPER ROSE—Brilliant coppery rose
CORITICA—Fine yellow brown plicata
DORE—Deep gold & soft cream bicolor
DYMIA—Rich, dark deep purple
E. B. WILLIAMSON—Bright copper red
ELSA SASS—Cool ruffled lemon ice
FORT KNOX—Exquisite butter yellow
GLEN ELLEN—Buff and apricot
GOLDEN SPIKE—Stunning deep yellow
GRAND CANYON—Plum, copper and gold
GREAT LAKES—Grand clear sky blue
INDIAN HILLS—Intense raisin red
LATE SUN—Gigantic coppery gold
LORD DONGAN—Rich Chinese violet
MATTERHORN—Cool immaculate white
MARY E. NICHOLS—Lovely old ivory
MELANIE—Large exquisite pink
MELITZA—Glorious salmon buff
MISS CALIF.—Tall, stately rose pink
MISSOURI NIGHT—Fragrant pansy purple
MME. L. AUREAU—Blue & white plicata
MOROCCO ROSE—Lovely soft rose pink
OLA KALA—Glittering golden yellow
OREGON TRAIL—Rich tan and brown
PRAIRIE SUNSET—Blended pink & copper
PRINCE OF ORANGE—Deep glowing orange
RED GLEAM—Brilliant fiery red
RUTH POLLOCK—Cream edged red purple
SABLE—Deep satiny black purple
SALAR—Cream overlaid salmon
SAN FRANCISCO—Giant white edged blue
SHANNOPIN—Lovely cream and rose
SHERIFFA—Tall metallic violet purple
SMOLDER—Rich velvety deep blue
STARDOM—Fine onion skin pink
TIFFANJA—Huge coppery buff plicata
TIFFANY—Yellow speckled violet
VIOLET SYMPHONY—Lovely soft violet
WABASH—Glorious blue and white
WASATCH—Giant purple & white plicata
WM. SETCHELL—Largest blue bicolor

TWICE FLOWERING

Iris blooming spring and fall

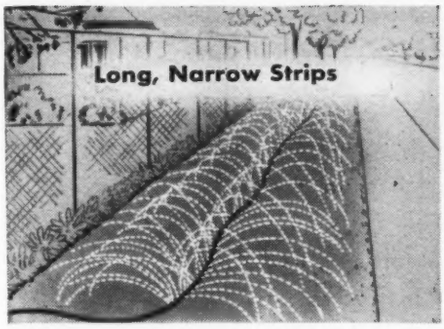
AUTUMN ELF—Lavender and cream
AUTUMN KING—Rich deep blue
AUTUMN QUEEN—Pure snow white
AUTUMN SURPRISE—Fine medium blue
BLACK MAGIC—Intense deep blue
CRYSORO—Deep orange yellow
DORCAS HUTCHESON—Rich pansy-violet
ELEANOR ROOSEVELT—Raisin-purple
EQUINOX—Fine violet bi-color
LIEUT. CHAVANAC—Brilliant purple
MARTI EVEREST—Large medium blue
OLIVE WHITE—Cream and gold
PEGGY BABBINGTON—Strong clear gold
SANGREAL—Ruffled soft yellow
SEPT. SKIES—Smooth violet bi-color
ULTRA—Brilliant ultra marine blue

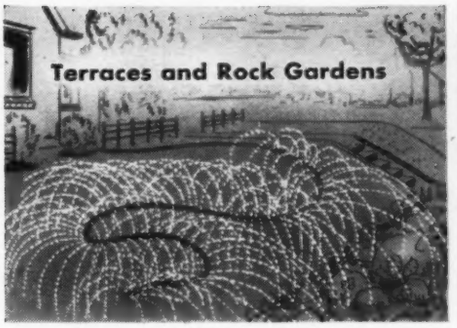
FREE COLORED CATALOG
Perennials • Alpines
Chrysanthemums • Iris

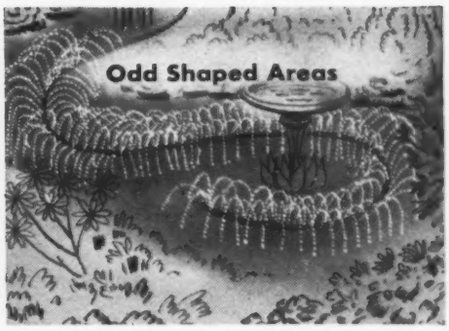
It pronounces all names!

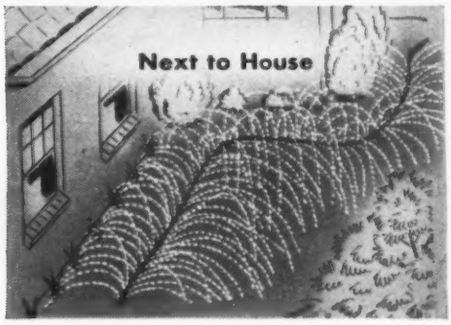
LAMB NURSERIES

E. 101 Sharp Box F-5 Spokane, Wash.









Water lawns, gardens this new, easier way

$4.95 portable watering system saves work . . . saves water

Different! Looks like hose . . . sends out 1000 gentle streams

NOW—put water on your lawn and garden just where you want it with no waste of water . . . and far less work. The revolutionary, new Gates Flexible Sprinkler . . . a 25 foot tube of strong, gay green plastic . . . sends out 1000 pin-size streams of water. So gentle it won't knock petals from delicate flowers . . . yet it waters thoroughly areas up to 250 square feet. Extremely flexible—puts water in odd-shaped areas, around trees and on terraces without hand sprinkling. Easy to handle—weighs only 25 ounces. Very durable. Fully guaranteed.

PATENT PENDING

Gates®

$4.95 at hardware and department stores . . . in handy, carry-home pack. You'll say it's the best buy for lawn care you ever made.

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Gates Garden Hose

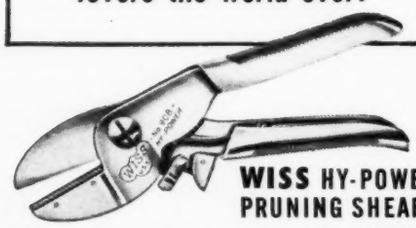
Gates makes a complete line of rubber and plastic garden hose —a hose in every price bracket. Sold by hardware and department stores from coast to coast.

Gates Flexible Sprinkler

Made by the GATES RUBBER COMPANY, Denver, U.S.A.

WISS Garden Shears

... favorites with garden-lovers the world over!



WISS HY-POWER PRUNING SHEARS

The easiest cutting, most powerful pruning shears you have ever used. The anvil construction assures a clean, effortless cut without bruising. New, narrower hand-edged blades, pistol grip, one-hand closing latch. No. 908, **$2.75.***

WISS DROP-FORGED GRASS SHEARS

These are the professionals' choice — the only grass shears that will cut certain types of tough, wiry grass satisfactorily. Blades are slender for closest cutting around obstacles and tapered to a fine point, adjusted like fine cloth-cutting shears. No. 5600, **$2.25.***

WISS CLIPPER GRASS SHEARS

Up-and-down handle-action assures effortless cutting. Contoured for comfort and fitted with grip guard to prevent slipping. Closing latch. No. 700, **$1.95.***

WISS ENGLISH PATTERN HEDGE SHEARS

Lightweight, fitted with rubber shock absorber which takes the jolt out of hedge-cutting and reduces arm fatigue. Keen edges, tapered blades, perfect balance — cutlery craftsmanship at its best! No. 8½E, **$4.75.***

*Prices slightly higher Denver and West

Send 25¢ for Wiss Booklet, "How to Prune For Better Flowers, Shrubs, Trees and Fruits," Dept. 15.

J. WISS & SONS CO., NEWARK 7, N. J.

Manufacturers of Shears, Scissors, Pinking Shears, Metal Cutting Snips and Garden Shears.

West Coast Gardening

By LESTER ROWNTREE

MAY on the West Coast is both ecstatic and aggravating. There is so much to enjoy and so much to do it is hard to concentrate on anything. We go out armed with the proper tools to accomplish a certain job. Then we get sidetracked. En route to a seed bed which must be sown we find weeds to be pulled and an open gopher hole where a trap should be set immediately. Sowing, watering and transplanting of seedlings must be done with dispatch. Fertilizers must be applied to older plants. In the South some seeds have already dropped and spent seedlings are ready for the compost.

Southern California

May sees the end of spring gardening. Calendulas, Iceland poppies, nemesias, Primula malacoides, violas and wallflowers give way to petunias, zinnias, marigolds and other summer annuals. Shirley poppies, worthy of revived popularity, are now blooming. Rogue them hard, taking out red shades and leaving the delectable pinks and salmons. If this is done conscientiously, next year's display will be entrancing. Although Shirley poppies do not last long when cut, their grace and exquisite tints make up for their brief life. Pick them in early morning just as the sepals fall from the wrinkled petals and plunge the cut stem ends into boiling water for one minute.

It is important to get chrysanthemums into the ground now. If your grower has not yet sent your order, hurry him up, for a late-planted chrysanthemum is a weak one. If you are a wild flower fan write the Julian Chamber of Commerce for the date of the Julian, San Diego County, wild flower show. It is always tops.

California Fog Belt

My enthusiasm for fragrant Buddleia alternifolia, the fountain butterfly bush, continues. This Chinese introduction of Reginald Farrer's, in bloom now, is quite different from the many other buddleia species and varieties. It has small feathery, lemon-scented leaves and tiny bunches of sweetly smelling lavender-lilac flowers, strung close to the long slender branches. In England the trunks of this 6-foot bush are often reduced to one or two and headed up to form an umbrella-like fountain of bloom. See that your shrub has ample room in which to let its arching boughs flow out. Prune as soon as the flowers fade, and, knowing that this buddleia blooms on second-year

Organic Soil Conditioning Pays Off!

T. C. Moore of Savannah, Georgia, is an inveterate organic gardner—in fact, one of the missionaries in the use of packaged organisms in making gardening easier and more fruitful—and these are the kinds of lilies he grows. Your gardening should also be more fruitful if you use the pioneer soil energizer and conditioner—ActivO—which, incidentally, no imitator has yet come close to matching in quality and performance.

How to Plant Bacteria

You may actually plant bacteria in your soil—and profitably. Those who find it difficult to make enough compost can energize their soils with a scientifically prepared composition of the many different kinds of bacteria needed to give them pep and amazing vigor as well as balance—and bacteria are the most important agents in maintaining the all-important balance not only in nutrients but also in hormones, vitamins, biotical materials, etc. Such planting of bacteria is urged if you can't add compost.

Even better than direct addition is mixing the preparation with mulches or what organic fertilizer you can buy or scrape up. The leading soil energizing product is a combination—the same one you use for activating compost . . . Out in Kansas, this is now being used on wheat and oats and other non-legume crops, applied like a seed treatment or inoculant, directly to the seed; and similarly, potato growers are applying it directly to the seed before planting. One prominent Wisconsin potato grower claims not only to get increased yield but better and quicker germination . . . A world-renowned Mum grower wrote the manufacturer, "Tried it in potting soil—Wow!"

NOW IS THE TIME TO USE ActivO

BENSON-MACLEAN

Bridgeton 46 **Indiana**

NO PLOWING! NO SPADING! NO HOEING!

RAISING YOUR GARDEN WITH ARIENS

Yardster

. . . THE AMAZING NEW ROTARY TILLER

Two 10" cog-tire wheels; optional 2-speed wheel drive

Note the depth of tillage; handling ease; level, aerated seedbed ready to plant!

Make gardening easy! Prepare level, aerated seedbed without back-breaking hand labor! Cultivate—kill weeds—close to plants and walls, under low branches without hand hoeing! The Ariens Yardster rotary tiller features a 6S Briggs & Stratton engine . . . tip-toe clutch for instant idling . . .two 10" cog-tire wheels . . . full hood protection . . . 12" tillage, up to 6" deep . . . factory-sealed lubrication; ball-bearing rotor . . . adjustable, easy-grip handles . . . all-steel construction! Yes! See the Yardster before buying any gardening equipment. Compare its looks—performance—balanced construction—price . . . and you'll choose the Ariens Yardster!

For details of the Yardster's amazing low price and work-saving accessories, see your dealer or write:

ROTARY MOWER ATTACHMENT

Cuts toughest, wiriest weeds easily; mows finest lawns velvety smooth. Cuts 16" swath. All steel hood. Attached in minutes!

AND FOR WINTER USE—A rotary Sno-Thro attachment. Throws (not blows) light or heavy snow up to 15' away. Cleans sidewalks, driveways without hand shoveling! 2-speed wheel drive does all the work!

Ariens

MAKERS OF THE ARIENS HEAVY DUTY TILLER

137 CALUMET STREET BRILLION, WISCONSIN

MANUFACTURERS OF AMERICA'S FIRST ROTARY TILLAGE . . . AND STILL AMERICA'S FIRST

Green-Rain

AMERICA'S NEWEST LIQUID FERTILIZER BRINGS SENSATIONALLY QUICK RESULTS

To Flower Beds

To Vegetable Gardens

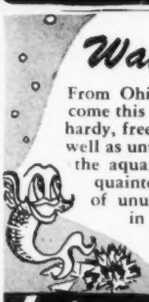
To Lawns and Shrubs

GREEN-RAIN, America's newest and most sensational Liquid Fertilizer is a MUST for your gardening plans this summer! Results are visible in a matter of days. Easy to apply with sprinkling can, carrier sprayer or vacuum sprayer. Dilutes one hundred to one. Do as professional nurserymen and flower growers do! Fertilize with GREEN-RAIN. Available at your Garden Supply Departments, or write Rosewell, Inc., 330 South 9th, Lincoln for nearest Dealer.

Rosewell
INCORPORATED
330 South 9th Lincoln, Nebraska

Water Lilies

From Ohio's finest Water Gardens come this year's newest collection of hardy, free-blooming Water Lilies as well as unusual Aquatic Plants for the aquarium or pool. Get acquainted with the hundreds of unusual items illustrated in new 40-page Spring Catalog. Send 10¢ to Box D-5 for your copy.



LOVELAND GOLDFISH FARM
LOVELAND, OHIO

growth, allow it enough of the current year's wood for next spring's flowers. It is not too late to plant can-grown summer-blooming buddleias. One of the best is 10-foot B. salvifolia from South Africa. It has long leaves and large panicles of orange-throated, pale yellow flowers. Buddleia lindleyana is less hardy but grows in the Pacific Northwest. It has slightly one-sided flower heads of purple-red.

Sacramento and San Joaquin Valleys

May brings the first hot days to Big Valley gardens. So bring on the layers of compost, leafmold, peat or whatever mulch you find satisfactory and easy to get. Feed roses by giving each bush a handful of complete fertilizer placed on top of the mulch and watered in. Spray your bushes at the first sign of a pest. You can hurry hot weather vegetables along by giving them fortnightly feedings of concentrated plant food dissolved according to instructions. Be sure the soil is moist before you apply fertilizer.

Cut back spring-blooming vines. Continue feeding camellias, fuchsias and tuberous begonias. In the heat of the Big Valley, stems of over-watered tuberous begonias tend to grow long and floppy. Often they die. The successful grower must develop begonia awareness and sense the warning gestures made by reproachful, over-watered plants.

This is the last chance for planting Unwin's dwarf dahlias, petunias, asters, zinnias and other summer annuals. When troweling, keep an alert eye for spots where bulbs bloomed earlier, but are now bare. They should be planted to annuals.

Pacific Northwest

Few blooms excel in beauty the velvety deep purple cups of Anemone pulsatilla. A well-grown plant may carry 25 or more flowers, followed by clusters of long, plumelike seed tails of lavender. There are many color forms. One, Anemone p. caucasica, should be grown in more Northwest gardens. It has primrose yellow flowers—smaller than those of most A. pulsatillas—and is easy to grow. Try to see it in bloom now. Tigridias, gladiolus, dahlias and similar plants should be set out at once. Then, seek out bare spots in the garden, work in plant food and plant self-sows from other parts of the garden.

Most northwesterners are consistent vegetable growers; indeed, many spend more time in the kitchen garden than with their flowers. It is time for them to bring out from under their frames peppers, tomatoes and eggplants. The two former vegetables are gross feeders and need frequent small doses of fertilizer. But too rich a diet causes tomatoes to run to foliage. Give them, instead, poles to be trained to and prune each plant to one tall stem.▶

Books to help you enhance the beauty of your flower arrangements - - and the variety of your garden

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By Julia S. Berrall

Over 150 beautiful pictures—8 in full color—reveal different types of traditional flower arrangements in Europe, Asia and America. A special section is devoted to contemporary trends with modern adaptations of classic style, plus lists of the flowers used throughout the years. Text includes practical, easy-to-follow suggestions on how to duplicate period arrangements and to adapt them to average, present-day needs. Perfect for every gardener and garden club group **$6.50**

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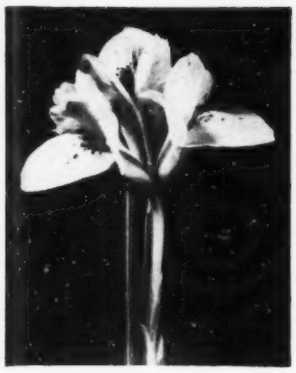

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Southern Gardens

By JULIA LESTER DILLON

IN THE SOUTH May brings its own quota of charm and beauty. The colorful borders of daffodils and early flowering plants are no more, but instead we have greater richness in the flowers planted to hide dying bulb foliage. Phlox drummondi and verbenas in variety, dainty gypsophila or baby's breath, baby blue eyes or Nemophila menziesi (N. insignis), Virginia stock and linaria Fairy Bouquet are all delightful.

This is really our iris month. Dainty I. cristata and I. pumila, as well as the fine tall bearded types, glow with velvety purples, rich yellows, soft pink and deep maroon. Everywhere we look there is splendor. Where they can be grown, the most wonderful of all are the Japanese iris. They require swampy places where water stands on their feet. One of the most beautiful Japanese iris gardens in the world is at Swan Lake in Sumter, South Carolina. There is no entrance fee and the owner welcomes thousands of guests each year to share the beauty of his gardens. There are many other plants at Swan Lake and a visit at any time is both an inspiration and a pleasure.

All through May, June and July the Savannah River lily provides daily masses of fresh white blooms. This is a low-growing plant with cup-shaped flowers from which hang long pendants. Found first on an island in the river, it has become a favorite wherever grown. It was brought to me from the Carolina lowland swamps near Georgetown and has been a constant joy.

Gladiolus corms and daylilies can be put in now for summer bloom. If you plant glads 6 or 7 inches deep they will rebloom year after year without lifting. Daylilies are the delight of summer gardens. Coming into flower this month, they continue until late fall. When used with soft violet and blue iris they make a wonderful picture for many days. Secure a good catalogue that lists daylilies by color; then order and plant them at once. Among the favorites are: evergreen Golden Moon; Sun Chaser, a fiery red; and Violet Queen, a dormant type, which means the foliage dies down in winter. Other fine daylilies are: the 4- to 5-foot Belle of Georgia, pale yellow with a soft peach glow; Painted Lady, cinnamon and yellow, unexcelled for flower size and strength of stem and leaves; Mrs. B. F. Bonner, very light golden yellow; and Mary Guenthere, deep wine red.▶

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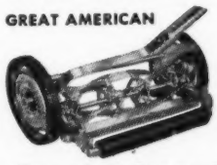

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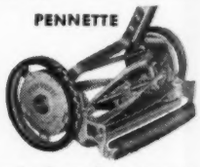

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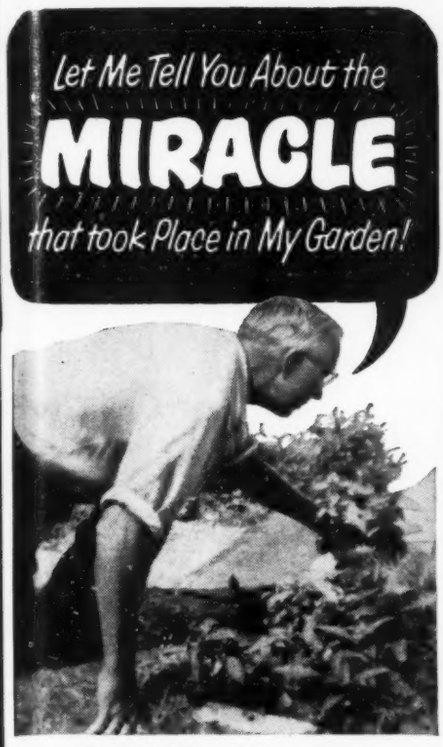

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Plants and Birds

By ALFRED E. RUNK

HUGH M. HALLIDAY, NATIONAL AUDUBON

Tiny, frisky, spattered with fiery orange, black and white, this male redstart earns his Cuban name of *candelita*—little torch.

BIRDS serve to maintain balance in nature by keeping in check insects, rodents, reptiles and amphibia, the overpopulation of any one of which could drive man from great areas of the earth. Birds also reduce the competition of weeds with cultivated plants by consuming millions of weed seeds.

The warbler is probably our most economically valuable native bird. He feeds upon the insects which destroy leaves and blossoms and so is the especial protector of plants. Arriving in early spring when leaf and blossom buds are just opening, these industrious little birds are to be found everywhere among plants, searching out and devouring chiefly the larvae of insects while they thus are in the first stages of existence before they can begin serious depredations upon plants. Warblers are to be regarded, therefore, as among our best aids in the preservation of trees, shrubs and vines—hence of forests, orchards and gardens.

The warblers constitute our second largest bird family and are confined to the Western Hemisphere. They are among the smallest of our native birds. They are also the most brilliantly colored, the most variously plumaged, the most restless and active and the least known to the general public. With few exceptions, their song is thin, high-pitched and not at all arresting. The name *warbler* is inappropriate. Not one of our native species warbles.

The redstart, the most animated of our warblers, is rarely still. It has a characteristic habit of drooping its wings, fanning out its tail and jumping into the air after insects. Deciduous woodlands or open second growths on moist lowlands are common habitats for this bird, which is abundantly and widely distributed.

Were this active, brilliant bird as rare as he is beautiful, we would consider a meeting with him an event to be re-

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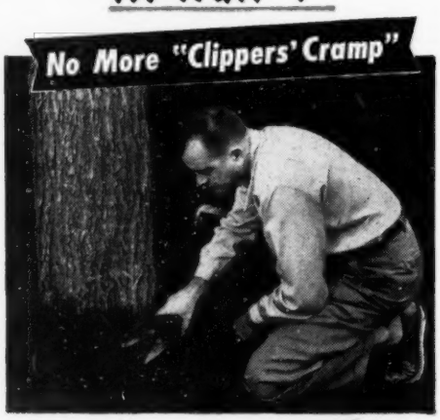

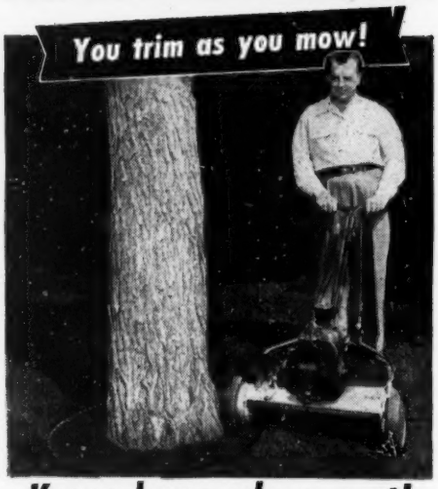

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grass won't grow where roots can't go!

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corded. In Cuba most warblers are known simply as *mariposas* (butterflies), but the redstart's bright plumage has won for him the name *candelita*—the little torch that flashes in the gloomy depths of tropical forests.

Like several other warblers, the redstart exhibits a superficial affinity to the fly-catcher. It has prominent bristles about its mouth and is expert in capturing insects in the air. But the redstart could never sit sedately and wait for some obliging gnat to pass! No, he is a restless fellow and can hardly keep his wings folded 20 seconds.

Although the redstart prefers low sapling growths in which to nest, it is just as much at home in more or less wooded areas, chiefly deciduous. During the height of the spring migration, it shows a decided fondness for the many varieties of insects found on the birch family.

Birches are essentially northern trees, and most of them are well suited for planting on poor sandy or boggy soil. Their delicate, flexible branches and conspicuous bark, ranging from white through shades of orange to black, give them distinctive charm in the dormant season.

The canoe, paper or white birch, Betula papyrifera, is one of our best ornamental trees, attaining a height of more than 100 feet. The white bark, which is waterproof, was frequently used by the early Indians for making wigwams and canoes. In early spring the tree is conspicuous with slender, pendulous flowers or catkins. These are followed by cylindrical strobiles, tiny cones filled with seeds relished by wintering birds and mammals. The attractive summer foliage turns golden yellow for autumn effect.

The generally pyramidal habit, abundant catkins, handsome fall coloring, splendid white bark and avian food supply both summer and winter all combine to make the canoe birch one of our most desirable lawn specimens.▶

McFARLAND

Distinctive and undemanding lawn specimens, the birches boast delicate, flexible branches and brightly colored bark.

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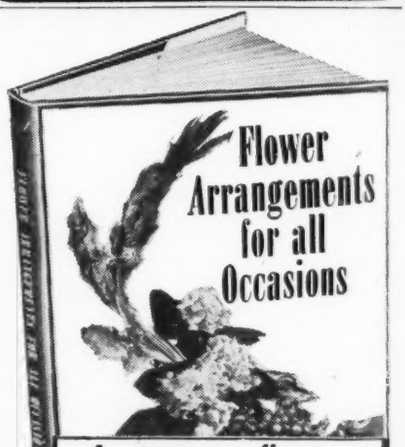

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6 of Today's Best Iris one each ($9.50 value) **$5.75**

PINK CAMEO, flamingo pink
SOLID MAHOGANY, mahogany red
CASCADE SPLENDOR, apricot
DREAMCASTLE, orchid pink
BLUE RHYTHM, rich blue
FIRECRACKER, red dotted yellow

AWARD WINNER COLLECTION

15 Iris, each Winner of an American Iris Society Award a ($15.25 value) **$10**

BLUE RHYTHM, cornflower blue
BLUE SHIMMER, blue dotted
BRYCE CANYON, henna copper
CHIVALRY, ruffled blue
ELMOHR, huge violet
GREAT LAKES, silvery blue
LADY MOHR, white & chartreuse
MASTER CHARLES, rich purple
MINNIE COLQUITT, dotted violet
OLA KALA, orange yellow
PINK CAMEO, flamingo pink
SABLE, claret black
SNOW FLURRY, ruffled white
SOLID MAHOGANY, mahogany red
WABASH, purple & white

BOTH OF THESE COLLECTIONS FOR $15.00

MINIMUM ORDER $3.00

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SCHREINER'S GARDENS Rt. 2, Box 327A, Salem, Oregon
Please send the following for which I am enclosing $..... (No C.O.D.'s)

☐ PINK CAMEO, $1.50 ☐ THE BIG SIX $5.75
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☐ 1953 IRIS BOOK, 25c (No charge if plants are ordered)

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STREET _____ ZONE _____
CITY _____ STATE _____

Start here for a better garden

get famous

FERRY'S SEEDS

For abundant dividends, pick out your flower and vegetable seeds at the silver-and-blue Ferry Display. Gardeners everywhere have long preferred Ferry's Seeds . . . and for unbeatable reasons.

SELECTED VARIETIES. The handy Ferry Display offers you a wide choice of varieties specially selected to thrive best under your own local conditions. What's more, you get exactly what you want . . . exactly when you want it. And, the Ferry packets carry detailed instructions to help you achieve best results in your garden.

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DETROIT • MOUNTAIN VIEW • MEMPHIS

YOU'LL ENJOY "THE GARDEN GATE." The Old Dirt Dobber passes along helpful gardening hints on his weekly CBS radio program.

Glossary of Garden Soils

Continued from the April issue.

GREEN MANURE. The term *green manure* applies to any crop grown for the sole purpose of being plowed under and thereby improving the soil by the addition of organic matter.

HARDPAN. Hardpan is any hardened or cemented layer of soil which prohibits the penetration of plant roots and the filtration of water.

HEAVING. Heaving is the alternate rising and falling of plants in the ground caused by successive freezings and thawings. A light, well-drained sandy soil heaves only slightly. A heavy clay or silt soil may heave sufficiently to lift some plants completely out of the ground or tear the crowns of others away from their roots.

HEAVY SOIL. A heavy soil is predominantly clay or silt. Its soil particles are so fine they prevent the easy flow of water and therefore retain an excess, becoming muddy in wet weather.

HORIZON. Soil horizons are the several distinct layers of soil lying approximately parallel to the land surface and produced through the operation of soil-building processes. Each horizon has more or less well-defined characteristics and color. The upper or A Horizon is usually dark and contains leaves, decomposed roots and dead and decaying matter of all kinds. This surface soil with its organic residues is usually the most fertile layer. The B Horizon, lighter in color, is made up of finely ground rock particles and contains some plant roots. The third or C Horizon is composed of original rock.

[CONTINUED NEXT MONTH]

President Eisenhower Rose

CONARD-PYLE

Mrs. Eisenhower receiving a bouquet of President Eisenhower roses from Mrs. James Duff, wife of the Senator from Pennsylvania, after the President had accepted the new rose as his namesake. Plants of the sweetly-scented medium red hybrid tea will be available next fall.

ARTHUR GODFREY STRIKING DOUBLE RED

NEW KING-SIZE TULIP ARTHUR GODFREY

A SPECTACULAR DOUBLE RED *ANOTHER* NELIS FIRST

In recognition of Arthur Godfrey's salute to Tulip Time in Holland on his TV show of May 5, 1952, a gorgeous new double tulip of vivid red was named in his honor. This spectacular new variety has been registered with the Dutch Bulb Growers Association, and all of the available bulbs of this genuine Arthur Godfrey Tulip have been allocated to Nelis Nurseries. Now, for the first time, this famous new tulip is offered to you in limited quantity by Nelis, — a tulip that is as much a King in Tulipdom as Arthur Godfrey is in the hearts of the nation. Orders will be filled to extent of supply — first come, first served.

Three King-Size Arthur Godfrey Tulips for $1.00 or no more than Seven for $2.00 per customer.

MOST GRACEFUL *of all* TULIPS NEW LILY-TYPES SPECIAL NELIS INTRODUCTIONS

Hybridizers have done wonders in developing the Lily-Type Tulip into the most delicately graceful of forms and colorings, and for you who want the very best strains, Nelis has the newest and finest in Lily-Type introductions. They're precious, and they'll thrill you no end with their exquisite beauty — definitely the most fashionable trend in tulips. See them in bloom at our fields. Order from these listings:

	Per 3	Per Doz.
ALADDIN. Dark maroon red, narrow white border	$1.20	$4.00
BOHEMIAN GIRL. A new and very attractive lavender	1.10	3.65
CHER AMI. Salmon changing to orange at the edge, inside brilliant orange	1.45	4.75
LILAC TIMES. Deep, strong purple. Inside white base. The first deep purple Lily-Tulip	1.20	4.00
MARIETTE. Deep rose, inside salmon, exceptionally large. This variety has received all the awards a flower possibly can obtain	.70	2.25
MONDAIN. Vivid orange red; narrow orange yellow edge. Extra large flower	1.15	3.75
OLD GLORY. Clear, glossy scarlet red; golden yellow base	1.05	3.45
PAINTED LADY. Golden yellow; narrow red edge	.55	1.80
ROYAL BABY. Tall, cream colored; broad rosy-red edge	1.20	4.00

SPECIAL POPULAR-PRICE COLLECTION

ALASKA. Pure yellow
BEVERLY. Rose-carmine
CAPT. FRYATT. Dark wine, red, blue center
STANISLAUS. Bright, glittering orange
WHITE CROSS. Pure white, greenish cast

3 each of 5 varieties (15 bulbs labeled)	$2.50
6 each of 5 varieties (30 bulbs labeled)	4.50
12 each of 5 varieties (60 bulbs labeled)	8.25

NEW LILY-TYPE TULIPS

TO CELEBRATE HOLLAND'S TULIP FESTIVAL NELIS OFFERS YOU THIS GRAND TULIP-TIME RAINBOW COLLECTION

Hundreds of thousands of visitors to Holland's Tulip Festival during May exclaim over the sea of tulips in bloom at the Nelis Tulip Fields. From these more than 300 different varieties, Nelis combines a grand mixture of all, from which the following special Tulip Festival Collections are offered:

25 Tulip Bulbs for $3.00
50 Tulip Bulbs for $5.00
100 Tulip Bulbs for $9.00

The more you order, the more varieties you get in this 300-bulb mixture.

1953 NELIS CATALOG

MAIL COUPON FOR FREE COPY

You'll find the entire tulip world opened up before you in the new 1953 Nelis Planting Guide, together with all of the newest and finest of special introductions. Also your authoritative guide on finest and newest of Daffodils.

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PEONIES · DAYLILIES · IRIS

• The big 60-page Wild Catalog for 1953 lists and describes more than 1200 varieties of Peonies, Iris and Daylilies . . . illustrated with more than 40 FULL COLOR plates and many other illustrations . . . jam-packed with time and money-saving tips and collections for beginners and experts alike!

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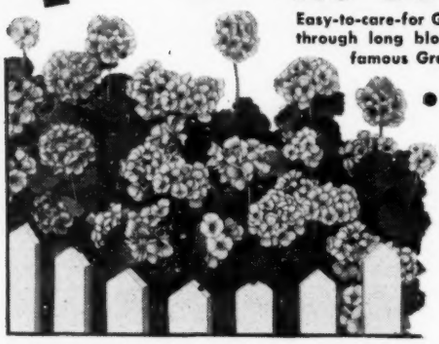
BRIGHTEN UP GROUNDS AND GARDEN THIS YEAR WITH

Geraniums

AS BEDDING PLANTS

Easy-to-care-for Geraniums offer rewarding interest and bright color through long blooming season. 167 varieties available from our famous Greenhouses.



• **ZONAL GERANIUMS**

Real "bright spots", ideal for mass plantings in beds, along walks, in porch or window boxes. Red, Pink, White, Crimson, etc. With safe arrival guaranteed, we ship plants 4" to 8" tall. Will bloom soon. Shipped prepaid.

50 for $10

Or, we'll gladly send a choice selection of colors in our fine Zonal Geraniums in smaller quantity.

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- LADY WASHINGTON Geraniums — "loveliest of all". Plants grow to 3-feet diameter, with velvety flowers 3" to 5" across. Beautiful colors . . . . . **8 for $3**
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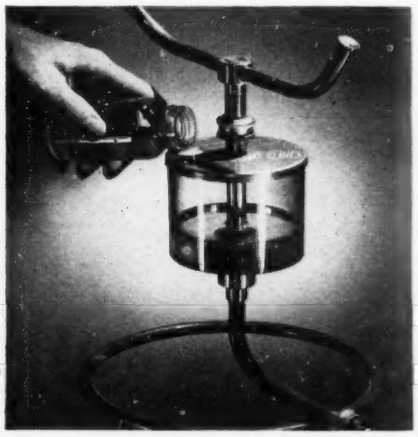
Write for FREE 1953 SPRING CATALOG. Describes 167 Geranium Varieties, also other Bedding, House plants.

WILSON BROS. P. O. BOX 48-E ROACHDALE, INDIANA

What's New in Equipment

AIDS FOR ALL GARDENERS

SPRAYING, sprinkling, feeding and trimming will soon be the order of business in the garden. Proper tools and material help make these chores easier. Pictured here are a few of the newer aids now available. For additional sprayers and garden chemicals see the feature beginning on page 56. For a listing of sprayers and chemicals see the Gardeners' Guide which starts on page 65.



4 in 1 Sprinkler

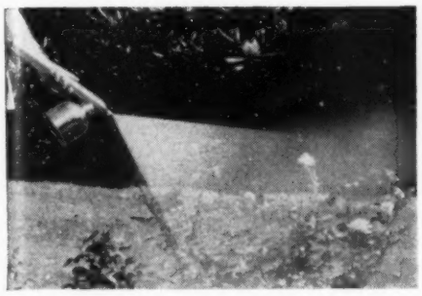
The 4 in 1 lawn sprinkler as a complete unit is a watering device, remove sprinkler arms and insert hose and it applies fertilizer, sprays and weed killers. (Misch Mfg. Co., Mishawaka, Ind.)

Terrex Spading Tool

From Europe comes Terrex, a semi-automatic spade for effortless spading. After inserting in ground, a steel spring turns the soil over. (Market Combers, Atlanta, Ga.)

Jiffy Soil Conditioner

Containing 83 per cent active materials, Jiffy soil conditioner is a concentrated flake which is mixed with water for easy application. (Royal Home Products, Inc, Cincinnati, Ohio)

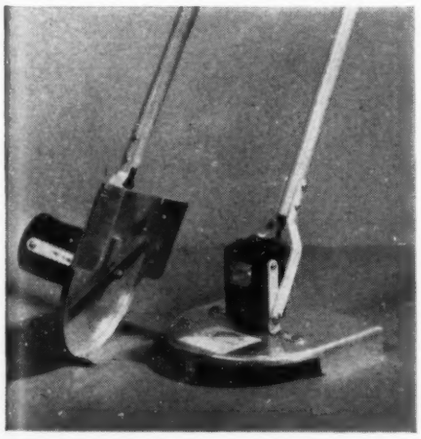


Blizzard Sprayer

All parts of the Blizzard Sprayer are made of the finest materials to insure long wear. The pump barrel is constructed of heavy seamless brass and the tank of heavy copper. Slow pumping gives a continuous unbroken mist-like spray. It is made in two sizes—pint and quart—and can be used for spraying anything in liquid form. (D. B. Smith & Co., Utica, N. Y.)

Du Pont Soluble Plant Food

Available to gardeners this spring will be Du Pont Soluble Plant Food, a "balanced diet" fertilizer for indoor and outdoor use. (E. I. du Pont de Nemours & Co., Wilmington, Del.)



All-In-One Trimmer

The electrically operated All-In-One trimmer will trim hedges and lawns, and when held on the side it will edge sidewalks. (Parkers Products, Portland, Ore.)

Oxyphen

Testing soil pH has been made much easier with the use of Oxyphen paper strips. Readings are taken right from the strip. (New Jersey Farm Supply, East Paterson, N. J.

For Better Gardens— Easier Gardening

Macmillan Garden-Tested Books Tell You How

AZALEAS and CAMELLIAS

REVISED EDITION

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No matter where you live — *North* or *South* — you can grow azaleas and camellias — either *indoors* or *out.* H. Harold Hume, a leading authority on these plants, accurately and thoroughly describes the varieties best suited for various uses and climates. He gives complete directions for propagation and planting, covering all phases of their care, so that the maximum success in your garden is possible. This new revised edition contains all of the latest varieties of both plants, with the most modern methods of pest and disease control, and grafting. $2.50

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Use and display your flowers in one of the most attractive ways possible — professional-looking corsages. The easy directions in this book show you how to use over 100 different flowers to achieve new and exciting results — each one striking and different, yet easy to make. $4.75

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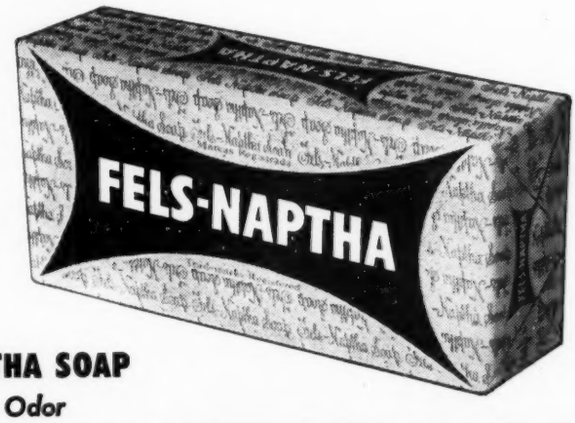
If your insecticide sprays do not contain a spreader, their efficiency is largely lost.

Why? Because spreaders reduce the surface tension of water so that your sprays cover completely—*and stick to the leaves.*

Since most insecticides don't contain spreaders—and commercial spreaders are expensive—use FELS-NAPTHA Soap. It will do this important job for you *better* and at a mere fraction of the cost.

Nothing could be easier to prepare. Just make a rich solution of FELS-NAPTHA in the water used to dilute your insecticide. That's all there is to it.

Get several golden bars of FELS-NAPTHA from your grocer and try it.



ONE OF THE MANY EXTRA USES OF VERSATILE **FELS-NAPTHA SOAP**

..the Golden Bar with the Clean Naptha Odor

Full Season of Bloom

AT A PRICE THAT SAVES YOU DOLLARS!

As we near the end of our shipping season we are making this offer to reduce our inventory. YOU get the benefit, for these are all first quality labeled varieties—Show Table Winners.

For the gardener who wants a good selection of beautiful cut flowers in a good color range and over a long season, these bulbs are a real "Buy". Bulbs are 1" to 1¼" in diameter, young and full of vigor—many will make outstanding show spikes this year!

EXTRA—with every order we will send *without extra charge* 100 mixed bulblets. These can be sowed like peas, about 50 per foot of row; they will probably not produce blooms this year, but will make nice bulbs for next year, and future years.

Show Table Winners Special

ANNA MAE Snow white	65 days
BIRCH RED Deep velvet red	100 days
BURMA Ruffled Rose red	88 days
COTILLION Deep pink	85 days
DONNA Ruffled pink & yellow	102 days
RAVEL Violet blue, reddish brown marking	77 days
RED CHARM Medium red	80 days
SPOTLIGHT Deep yellow, red marking	82 days
TRUELOVE Pure pink	68 days
VULCAN Beautiful purple	82 days

5 BULBS Each Variety Labeled (100 mixed bulblets extra) **$3.55** Postpaid

10 Bulbs of each labeled (plus 200 bulbets).... $ 7.00 ppd.
25 Bulbs of each labeled (plus 500 bulbets).... $12.50 ppd.
100 Bulbs of each labeled (plus 2000 bulbets)... $42.50 ppd.

Complete Cultural Directions with each order.

Order today. You'll be glad you did!

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4 SPECIMEN IRIS 50¢

INCLUDING THE MAGNIFICENT

CLOTH OF GOLD

An outstanding Iris of deep glowing yellow, with all the wonderful qualities of a true champion. CLOTH OF GOLD is vigorous and full flowering, listed everywhere at more than our price for all four.

MAY'S MOUNTAIN-GROWN IRIS . . . These beautiful Iris are grown for us in mile-high Colorado . . . where climate and soil are ideal for the propagation of wonderful Iris. Yours will be shipped direct at proper planting time.

FREE Full-color Iris book, now in production. Write for your copy.

EARL MAY SEED CO., 100 Flower St., Shenandoah, Iowa

the Gardener Indoors

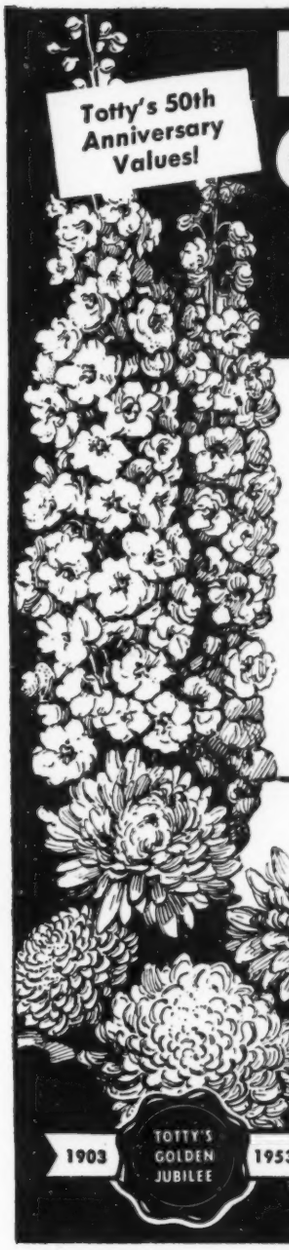
for variety ISOLOMA

FERNE S. KELLENBERGER

Here's a different house plant which may be grown wherever African violets and gloxinias flourish.

WHEN a friend sent me a queer looking creeping rhizome labeled tydaea, it seemed to me the loosely put together little white tuber could never produce a spark of life. But, I planted it ½ inch deep in a light mixture of sand, peat and good loam. The soil was moistened and I set the pot away in a dark cupboard. This was really too warm for an ideal location but it was the coolest spot I had. That was in mid-November. Once a week the pot was inspected and usually a light spraying of warm rain water was given—just enough to keep the tuber from drying out.

On January 3 the new growth was about ½ inch high so the pot was set on a table near a south window. The intensity of the sun here in the South is very different from a southern exposure in the North. Delicate leaves do not burn, in fact I have grown African violets in unprotected south windows all year in Arkansas. In that location this plant stayed until the first blossom appeared on June 8 when it was moved to a north



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DELPHINIUMS and CHRYSANTHEMUMS

ONLY 50c EACH

when ordered in quantities of 20!

Vigorous Blooming-Age Plants will flower in your garden this summer and fall if you order now!

DELPHINIUMS

Spectacular Pacific Coast Hybrids—grow up to 6 ft. tall!

Summer Skies, heavenly blue.
Blue Jay, bright, clear blue.
Blue Bird, deep Yale blue
Black Knight, rich violet.
Sir Galahad, snow white.

CHRYSANTHEMUMS

Hardier double varieties in a range of exquisite colors!

Morningtide, bright cherry red.
Canary Wonder, lemon yellow.
Mogul, soft rust-apricot.
Huntsman, vivid scarlet orange.
Polar Ice, glistening white.

75c each 12 for 7.50 20 for 10.00

Stately *Delphiniums* and colorful *Chrysanthemums* are SO EASY TO GROW when you begin with *robust plants started under ideal conditions!* We offer choicest varieties, selected for vigor, hardiness and extraordinary beauty *at prices which are amazing for plants of this quality!* Grown in 2¼" pots, each plant will be individually labeled, carefully packed and *shipped promptly at your proper planting time,* F.O.B. Madison, New Jersey. Order today on our time-honored guarantee of satisfaction!

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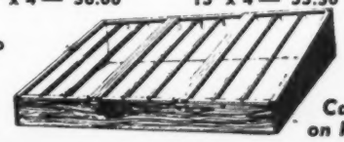
Each Yoho Greenhouse is accurately redicut and erected at our plant. Each piece is plainly marked so any handy man can re-assemble. Save many dollars on construction costs. High quality at low prices. Clear, age-resisting Cypress or Redwood mouldings. Prices include all hardware and fittings, double strength glass, complete cost except benches and foundations.

10' x 12'—$230 18' x 25'—$ 720
10' x 16'— 288 18' x 50'— 1440
14½' x 18'— 443 21½' x 50'— 1610
14½' x 25'— 615 21½' x 75'— 2418



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(Highest Award by American Iris Society)

ALL 9 DYKES MEDAL AWARD IRIS FOR ONLY $4.95 (Value $7.25)

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SELECT ANY 5 FOR ONLY $3.50

BLUE RHYTHM, Cornflower blue
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GREAT LAKES, Striking light blue
WABASH, Standards white — Falls violet
PRAIRIE SUNSET, Rose copper blend
MISSOURI, Bright enameled medium blue
SPUN GOLD, Velvety golden yellow
SIERRA BLUE, Stately light sky blue

All Iris Postpaid and Labeled

Write for our new 1953 Iris Catalog showing over 60 Iris in natural color with full descriptions.

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Foremost new Saintpaulia introductions of this decade. Petals of each double blossom individually edged white, our "Tinseled Beauties."
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ANY TWO PLANTS — $5.00
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Sprightly cup-shaped flowers, our gayest and most popular '53 novelty series, growth habit small and dainty.
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Huge-flowering singles, nearly as large as DuPonts, soft, pliable foliage.
BLUE BEAU — A handsome dark blue.
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Fischer flowers

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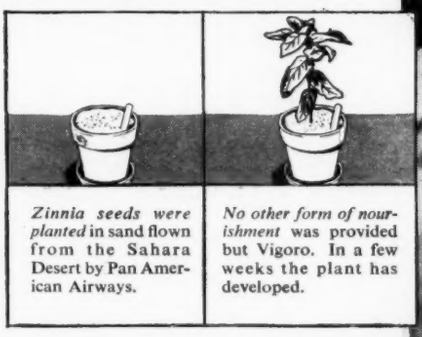
VIGORO* CAN GROW LOVELY FLOWERS

even in Sahara Desert sand!

Proof!



Zinnia seeds were planted in sand flown from the Sahara Desert by Pan American Airways.

No other form of nourishment was provided but Vigoro. In a few weeks the plant has developed.

New feeding test reveals basic secret of gardening success

The bright, beautiful zinnias you see pictured here were actually grown in Sahara Desert sand—supplemented only by regular feedings of Vigoro. Here's conclusive proof that Vigoro provides every element flowers need to grow and thrive. With results like these in a sand test, you can imagine what Vigoro will do for flowers you grow in *real* soil . . . in your garden. No matter how poor or thin your soil may now be, Vigoro can make it rich in all the food elements flowers need to develop best . . . with large, healthier blooms and more of them. See what a difference it does make. Use Vigoro regularly on your lawn and garden.

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End-o-Pest ARC (Ant, Roach, Chigger killer)

For Variety . . . Isoloma

[FROM PAGE 35] window near my desk where I can enjoy its beauty. There it gets lots of unshaded light but no sun.

As soon as it blossomed I was anxious to know the correct name and found that tydaea is now known as isoloma and that it is closely allied to African violet, gloxinia, achimenes and gesneria. Because of variations and hybridization in cultivation the names of this group are much confused so I am not too sure whether my plant would be considered amabile or a hybrid of that species since it is upright, and has clear green leaves. When these are very young reddish hairs cover the surface, especially the tips of the leaves. The pendent blossoms with five rounded lobes are 2 inches long and 1½ inches wide. They are dark purplish rose outside and inside on a light ground velvety dots of the darker color are quite close together. In fact there are so many dots on the top two lobes that the effect is one of almost solid color. Whatever the name, it produces lots of blossoms over a long period of time, has attractive foliage and is as happy in its northern exposure as it was during its sojourn in the south window.

My plant likes to be moist but not wet and an occasional fine spraying of water of room temperature seems to be appreciated for it then takes on that "new" look a well-cared-for plant has. This plant makes a welcome addition to the summer window garden, giving both variety and newness at a time of the year when they are most welcome.

—FERNE S. KELLENBERGER (Ark.)

Martha Washington Geraniums

I was very much interested in a recent announcement of Encinitas Farms, Inc., Route 3, 445 Santa Fe Drive, Encinitas, California, that they had an abundant supply of Martha Washington geranium (pelargonium) seeds, and wondered how many FLOWER GROWER readers would pass up the easy, thrilling experience because they thought the task was beyond an amateur. I can think of few other adventures in window gardening that would bring as much pleasure for so little risk.—C. W. WOOD

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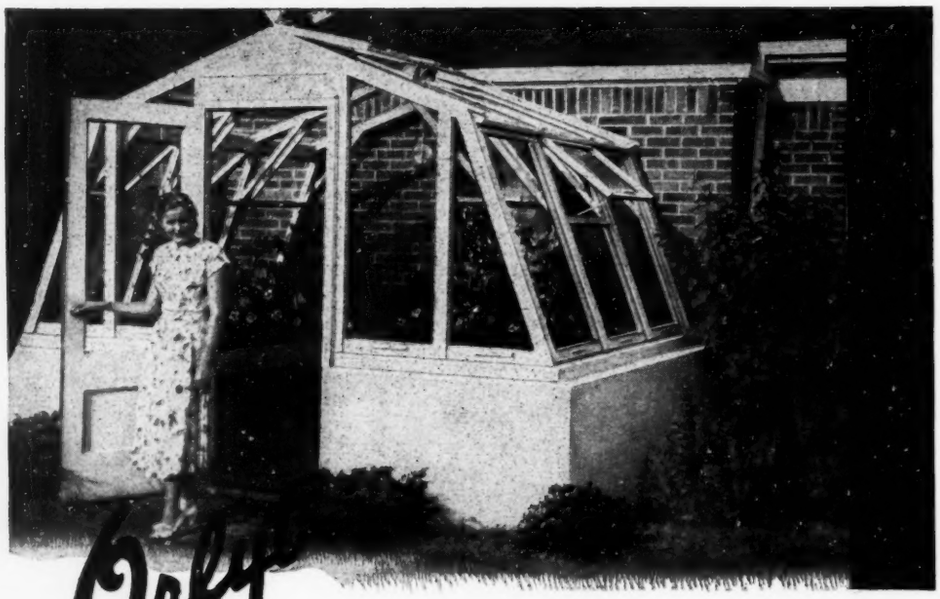

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The Gardener Indoors

Home Greenhouse

By ERNEST CHABOT

ERNEST CHABOT

Having good tools handy greatly increases the satisfaction in greenhouse gardening.

A good assortment of tools arranged for convenient use can well be recommended to every greenhouse gardener. Those tools actually needed are inexpensive and many of the most useful are homemade. The big thing: have them ready for handy use. In a small greenhouse, like mine, without a potting shed, spring clips and hooks can be fastened to a piece of plywood and set below a shelf on a glass end. Where a large greenhouse is joined to another building, better arrangements on the large area of the back wall are possible. Of course, if you have a work room or potting shed, storage space for tools is no problem.

The dampness of the greenhouse must always be considered in selecting tools. Choose those made of stainless or galvanized steel and possibly copper. Electro and cadmium plating on tools are as good as nothing when it comes to resisting rust. Aluminum isn't good either because it disintegrates in contact with soil—especially soil that has been limed.

A good sharp stainless steel knife is about the most useful tool in the greenhouse. It is needed for taking cuttings, pruning and many other jobs. Then you need a good pair of shears. Florists who use shears daily will tell you those resembling small tin snips are best. They are sturdier and better suited for all cutting and pruning jobs than scissors.

For watering and syringing, you will

Timely Tips

SOW SEED of asters for late August and September flowers; also seed of fibrous and Christmas-flowering begonias.

SHIFT ROOTED CUTTINGS of bouvardia and gardenia to larger pots. Pinch straggly growth on bouvardia.

DRY OFF calla lilies by placing pots on their sides under the benches.

FEED carnations.

PINCH PLANTS of snapdragons, calendulas, petunias and similar annuals to induce branching.

INCREASE SHADING toward end of month.

want a bulb, watering can and hose. It is hard to find a rubber bulb that is large enough. Those 10-ounce models are much too small. I would like to see one made of plastic that holds nearly twice as much. A long-spouted watering can is not necessary unless you have 4 or 5 foot wide plant benches. It would be handy, though, in a small greenhouse for watering plants under benches. Fine and coarse roses are needed.

A hose of light plastic will be found now in most greenhouses. Excellent! They are so easy to move about. In one small greenhouse I've seen, the hose runs along the ridge and down from the center where it will reach any part of the greenhouse. A hose nozzle is not generally used in greenhouses, but I like one type very much. It has a lever hand control for turning water on and off instantly and

Springtime Medley

MRS. LOUIS H. AMER

• Blossom-studded branches of wild crabapple heighten this early spring arrangement by Mrs. Louis H. Amer of Akron, Ohio. Using a pink-lined, pale green bowl set on a redwood base, Mrs. Amer completed her design with pale-to-dark pink lily-flowered tulips and light green hosta leaves. Italian bird figurines repeat the pastel colors.

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- ☐ Three Oaks—lovely amber pink with blue blaze.
- ☐ Vatican Purple—stately rich blue-purple self.
- ☐ Daybreak—interesting blend of coppery pink and gold.
- ☐ Goldbeater—vibrant clear chrome-yellow.
- ☐ Snow Carnival—charming pure white, ruffled finish.

Select 4 from this group—$.75 each

- ☐ Master Charles—glowing mulberry-purple self.
- ☐ China Maid—popular blend of pink, golden bronze and lilac.
- ☐ Cloth of Gold—exceptionally beautiful clear deep yellow.
- ☐ Moonlight Madonna—dainty light lemon yellow.
- ☐ Harriet Thoreau—fine clear orchid pink.
- ☐ Golden Fleece—yellow with creamy white patch on falls.
- ☐ Sharkskin—bright glistening white self.
- ☐ Spun Gold—well-formed golden yellow.
- ☐ Gypsy—beautiful coppery gold standards and chestnut falls.
- ☐ Bandmaster—large free-blooming powder blue.

Select 3 from this group—$.50 each

- ☐ Wabash—white standards, deep violet falls edged in white.
- ☐ Missouri—clear rich medium blue.
- ☐ Ormohr—large well-rounded blue of fine form.
- ☐ Elsa Sass—cool clear lemon yellow, lighter falls.
- ☐ Los Angeles—white feathered with blue stitching on edge.
- ☐ City of Lincoln—yellow standards and fiery red falls.
- ☐ Christabel—brilliant glowing red.

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a long spout of small diameter which makes it easy to water without wetting the foliage of soft plants. For syringing and watering seed flats, this nozzle can be replaced with one which makes a very fine mist.

Your dibble and potting stick are best made of hardwood such as ash or oak; soil does not stick so readily to dense grained surfaces. An excellent small plastic dibble is now available for $1.00. Those large steel ones with curved handles are all right for outdoors, but not for light work. Most of us do not find much use for a trowel under glass, but a three-cornered flat mason's trowel is very useful for scraping, tamping, leveling and marking off soil.

Shop tools such as screw drivers, pliers and hammer come in for almost daily use. A small can of light oil is a must for lubricating motors and ventilating equipment, as well as tools.

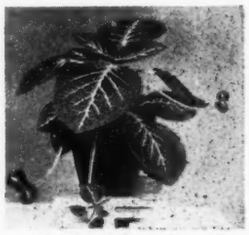
The best cultivator is one you can make yourself. It is a sharp pointed single hook fitted into a file handle. Light cultivators made of stiff wire bent into two prongs are perfect for cultivating seedlings in flats or loosening soil of potted plants. Other small items you will want to have handy include: a stiff brush for cleaning up the potting bench, spoons for measuring, sieves of 1/16, 1/8, and 1/4 inch mesh, hardwood tamping block, wooden slat sharpened along one edge for leveling and marking and possibly a spotting board for marking off seedlings. A good one can be made with the prongs of a discarded wooden rake.

Rubber gloves might be wanted when handling poisonous insecticides or washing pots. But otherwise, most greenhouse gardeners do not like to have their freedom of movement hampered by extra clothing. After all, we can do practically any of the jobs cited above with our God-given hands, the most useful tools of all.▶

New Geranium Society

• Geranium fanciers and growers have formed a society devoted to the promotion and improvement of their favorite group of plants. Worldwide in scope, the International Geranium and Pelargonium Society extends special invitation to enthusiasts in all English-speaking countries. This year's plans include the publication of a society bulletin and a convention which will probably be held in September. Individuals may become regular members upon the yearly payment of $2.00 dues; contributory members, $5.00; or sustaining members, $10.00. Address inquiries to the director pro tem, Paul W. Jackson, International Geranium and Pelargonium Society, P. O. Box 231, Santa Paula, California.

***New* Pot Plants**



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Garden Chemicals

THERE'S no telling, I suppose, just how much the newer garden chemicals have contributed to the big upswing of gradening in recent years, but anyone can see with half an eye that they've made a pretty good-size contribution. Not because they've really made gardening a fool-proof hobby or lent push-button ease to the maintenance of attractive grounds, but rather because they have in fact stepped up the gardener's efficiency—increased his productive capacity and conserved his time and energy—and so have made gardeners out of countless people who would otherwise sooner be something else in their leisure time.

Bugs, diseases, lawn weeds, rabbits, the neighbors' dogs, the compactness of clay, the infertility of fill-dirt, and most of the other ills that gardening is heir to, are nowadays easily gotten around by something or other that comes in a bottle or carton and can be obtained at a nearby place of business or ordered by mail with the greatest of ease. And with the ills of gardening gotten around, the joy of gardening has an infinitely stronger attraction to those whom the ills would repel.

Just which of many factors has had *most* to do with the gardening boom is anyone's guess, but the garden chemicals, like as not, have as good a claim to the honor as any.

Reasons for Gardening

WHAT specifically provides most of the joy of gardening is by no means a matter of certainty either, and it goes without saying that different people garden for different reasons anyway. Veteran gardeners are likely to be mostly concerned with a particular plant, or group of plants, or plants in general, but I'm inclined to think that most of our newer gardeners are more interested in the attractiveness of their grounds than in any particular plants as such—in other words, that they're landscapists more than they are horticulturists or botanists. And I hope this is so, because I think an increase in the concern of people about the appearance of their homes is more likely to indicate a permanent trend and thus to mean that the gardening boom is here to stay.

Naturally, though, one garden interest leads to another, and a division of gardeners into landscapists, horticulturists and botanists, or into any other series of hypothetical classifications, is not likely to remain stable very long. The one supremely good thing about gardening is that it not only affords all kinds of attractions for all kinds of people but also for all kinds of changes in people's interests.

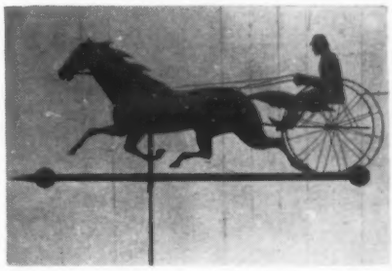
Flowers at Close Range

As remarkable to me as anything else at the Williamsburg Garden Symposium in March was the response of the audience to the color slides of flowers made at extremely close range by our photographer Jack Roche and projected on the screen during the course of his talk on the Symposium program. There were oh's and ah's for every slide and bursts of applause for the very best.

It made me wonder if perhaps most of us never take a really close look at a flower—maybe never have thought of doing so, or have become too familiar with flowers to take the trouble—and so are missing out on one of the joys of gardening. At extremely close range, the structure and color of almost any flower is truly a wondrous sight—so much so, indeed, that by comparison your jewelry is likely to seem unimaginitively designed and clumsily made.

You needn't be a photographer with special close-up equipment to see the finer points of flowers, of course, for you get the same effect by looking at a flower through almost any kind of magnifying glass. So if you're not in the habit of occasionally using a glass and taking a really close look at flowers, try doing so now and then and see if it doesn't add to the joys you're already getting out of gardening.

Theodore S. Weston



This horse-drawn high-wheeled-sulky weathervane now on the property of the O. B. Craigs of Independence, Ohio, originally overlooked the large barn at the famous kite-shaped track in Independence, which was owned by Charles Williams in the early 1890's.

Coming in June Flower Grower

■ **Our June issue will be jam-packed with iris information of all kinds—bearded, Siberian, Japanese, aril, Louisiana and dwarf. Iris for all tastes and all parts of the country. There'll be another Gardener's Guide feature, too, this time a directory of iris sources.**

■ **Everyone interested in roses (and who isn't?) will enjoy the personal experience story "Our First Season with Roses" told by a west coast gardener. This delightful article is based on the progress of 128 different plants—a few of almost every type available. In addition, we'll bring you a report of the 1954 All-America roses.**

■ **June is for geraniums as well as iris and roses. It's the month they begin their riotous summer bloom and the time to make cuttings for winter pot plants. We'll tell you about unusual varieties you've never heard of—kinds you'll want to add to your collection!**

Woodland rock garden

by ZENON SCHREIBER

Rocks, pastel drifts of miniature bloom, trickling water and green shade—all so well placed that all suggestion of design is lost in the satisfying whole—that is Allwood, woodland rock garden of Leonard J. Buck at Far Hills, New Jersey. This garden, still in progress of construction, is currently attracting the attention of garden lovers and professional horticulturists alike.

The garden is situated in a densely wooded hollow through which a stream flows into a pond. It was Mr. Buck's love for the green beauty of these woods and his perception of their even greater promise that led him to investigate the possibilities of rock garden development there. So it came about that I was entrusted to create a garden in these woods without destroying their natural beauty, a garden that would embrace all kinds of suitable plants, even those plants native to far away places.

The possibilities were endless. The trick was to select the most appropriate and harmonizing plan, the one which would best retain the intimate charm of the wild woodland —and not turn it into a park or botanic garden.

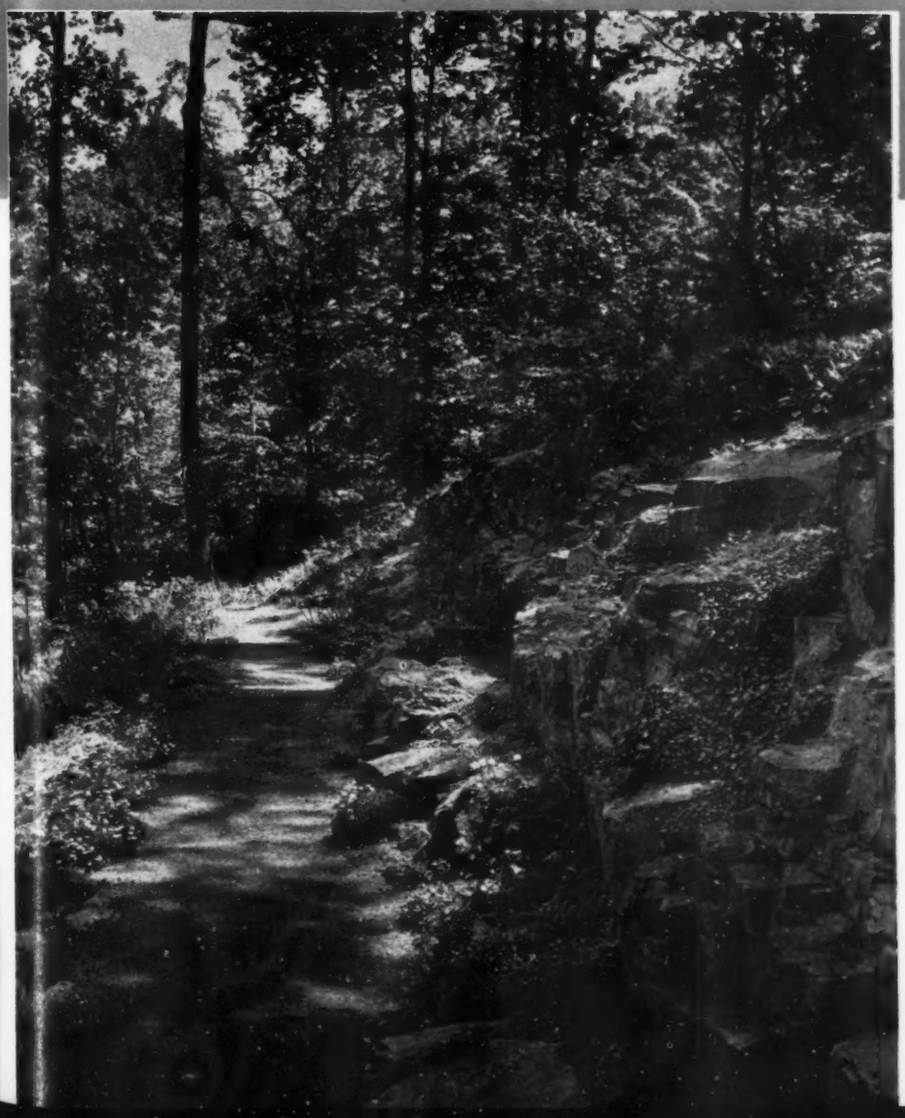
The plan finally decided on was a natural in every sense of the word—it was determined by Mother Nature herself! The site was found to contain a sizable rock formation and a survey indicated the presence of others hidden under an over-all blanket of loose trap rock. When finally unearthed, these rocks shaped the development of the garden. Serving as major interest points, they were joined by comfortable, winding paths and steps—paths leading through grouped and massed effects and arresting details, paths with views and panoramas, with surprises and exclama- [SEE PAGE 98]

Pictured foreground to back are soft rainbow drifts of Houstonia caerulea, Eranthis hyemalis, doronicum species, Rhododendron obtusum, Androsace sarmentosa, Campanula elatines garganica.

At Reno Rock, the artfully artless placement of rocks, flowers, vines and shrubs makes them look as though they've been there forever and a day.

Sun-dappled path winding past Polypody Rock is brimful of exclamations and surprises, massed plantings and delightful, head-turning details.

GOTTSCHO-SCHLEISNER PHOTOS



A tasteful—if not tasty—rock sandwich of andromeda and sempervivums! Allwood's many ledges such as this bearing stratified colonies of bloom offer intriguingly intimate eye-level views.

PEONIES for cutting

by DOROTHY J. KNAPP (IND.)

As the first breath of spring scents the air, the uppermost thought in my mind —and many another gardener's—is to tread the beaten garden path to watch for the tiny red shoot that will, in a few short weeks, produce that magnificent flower the peony. This dramatic unfolding of nature is a spring spectacle indeed—and one I look forward to not only for the big globes of white, pink and red it brings to the garden to companion the yellows and oranges of early daylilies and mauves and golds of iris but also for the handsome cutting material peonies afford for the house. Indeed, one of the most enjoyable things about the versatile peony is its usefulness as a cut flower.

Certain varieties, of course, are better for cutting than others. So let's sort out now the very best cutting varieties, grouping them by flower type and color. First, we'll consider the doubles, then the singles and Japanese, all three of which are available in early, midseason and late varieties. The old-time species or wild peonies (and tree peonies, too) are particularly early-flowering, preceding the earliest of all the others by two to four weeks.

Double Varieties

Topping our list of good cutting doubles, the type most familiar in the garden, is one of these native peonies, bright red P. OFFICINALIS RUBRA, which is one of the very first varieties of all to bloom. Used in a sparkling cut-glass vase or old-time pitcher, this favorite of grandmother's garden lends dignity to any home. There are many other fine red cutting doubles, in a variety of shades—from the bright red of RUTH ELIZABETH to the deep black red of MONS. MARTIN CAHUZAC. There is per-

ROCHE PHOTOS

Popular Festiva Maxima, a massive white double touched with crimson, is a best in the garden and as a cut flower.

A cutting subject with ooh!-and-ah! value indeed is Japanese-type Charm. Flaring petals are of deep red "satin."

BOUTRELLE

Don't overlook pretty-petaled Pico. This long-lasting white single took top class honors in two 1952 shows.

haps nothing so magnificent as a vase of the latter alone—whether three blooms are used or three dozen. Other double reds that cut well: BURMA, CHERRY HILL, FELIX CROUSSE, GROVER CLEVELAND, KANSAS, KARL ROSENFIELD, LONGFELLOW, MARY BRAND, PHILIPPE RIVOIRE, RICHARD CARVEL, TEMPEST and W. E. BLANCHETTE.

Good pink doubles are fairly numerous too. There's BLANCHE KING, ELLA CHRISTIANSEN, MARTHA BULLOCH and TONDELEYO. But the earliest is EDULIS SUPERBA. A deep rose that retains its color well, this peony (as well as all deep pinks, for that matter) is perfect in a blue vase —or in a white container paired with the graceful blue perennial baptisia. The deep pinks also combine strikingly with simple white daisies, which contribute a pleasing, lighthearted grace to the straight, sturdy peony stems.

In the medium pink doubles, silvery, chrysanthemum-shaped MONS. JULES ELIE is an early standout, bursting forth soon after Edulis Superba. Then come the following light and medium pinks: DORIS COOPER, GEORGIANA SHAYLOR, HANSINA BRAND, MINUET, MRS. FRANKLIN D. ROOSEVELT, THERESE and WALTER FAXON. Almost as lovely with blue as the deeper pinks, this color class goes particularly well with the blues of spuria and Siberian iris, whose dainty blooms fill in charmingly with the stalwart peonies.

FESTIVA MAXIMA, now starting its second century, heads [SEE PAGE 94]

ROCHE PHOTO FROM MYRA BROOKS' "FLOWER ARRANGEMENT WORKBOOK" (BARROWS)

A graceful arrangement of pale pink peonies, their own foliage the effective foil.

TIPS ON CUTTING AND HANDLING TO INSURE LASTING BLOOMS

First, strip excess leaves from stem. It's easier to do this with a piece of tissue because wet leaves then don't stick to fingers.

Using a knife or razor blade, recut stems under water to prevent air from entering. Cut on a slant to expose larger absorbing surface and keep stems from resting flat on vessel bottom.

Next, place the blooms in deep container of water in a dark cool place several hours. Flowers are then ready for vase.

DRAWINGS BY GIOIA FIAMMENGHI

Add water to arrangement daily to compensate both for that used by peonies and for the considerable amount evaporated in dry, heated homes.

Mecca for daylily fans . . .

GARDEN OF F. EDGAR RICE, PRESIDENT OF THE HEMEROCALLIS SOCIETY

by LONA EATON MILLER (OKLA.)

THE ENTIRE extensive grounds of F. Edgar Rice in Bartlesville, Oklahoma—complete with separate daylily, rose, formal and patio gardens knowingly designed and meticulously maintained—is an inspiring study for gardeners. For Rice, a successful engineer, has applied the painstaking skill of his profession to achieving near garden perfection.

But by far the loveliest spot of all is the 50- × 100-foot hemerocallis garden, for which the other garden areas simply provide a delightful setting. Within the last few years, the fame of this garden jewel has spread until now it has become a veritable mecca for daylily fans from hundreds of miles around. Indeed, each June on a designated week end, some 400 people from as many as 20 states pilgrimage to see the many hundreds of plants then in peak of bloom. Of the more than 350 varieties grown, some 300 are in flower at "open-garden" time. Here, visitors can view all the best new and old varieties, whose form, substance and behavior they can conveniently compare. Because each daylily is a personality to Rice, he selects new varieties with utmost care. Paying regular visits to originators, he often chooses the best new varieties and adds them to his collection long before they are in commerce. The 6-foot-wide borders and huge rectangular beds in the garden include such breath-taking blooms as Mabel Fuller (Kraus); Painted Lady and Black Prince (Russell); Pink Prelude (Nesmith); High Noon (Milliken), a choice red; Sceptre (Bechtold), an exquisite yellow; Caballero (Stout), a bicolor with rose vermillion petals and yellow sepals, which captured fifth spot in the 1951 popularity poll and won the same place again in the 1952 poll. In the seedling bed, daylily No. 51-1, originated by Mr. Rice, shows great promise. Deep red with an orange throat, this medium-sized bloom is a real eye-catcher.

For the convenience of visitors desiring the names of certain varieties, each is plainly labeled, while grassy walks of Zoysia matrella make for comfortable strolling. This weed-free grass is so thick that walking on it is like stepping on a rare oriental rug.

On the street side of the daylily garden, perennials bloom from spring to frost for the pleasure of passers-by: Phlox subulata and carolina, plumbago and, you guessed it, daylilies. The high west fence of the garden is covered with wistaria, while directly opposite, the overly friendly rose garden climbs right over the high north fence to provide a backdrop of rich red. This garden, a beauty in its own right, boasts many of the new roses, as well as old favorites: Silver Moon, Dr. Huey, American Pillar, Mary Wallace, Paul's Scarlet Climber and Mermaid. It is tied to the hemerocallis garden by a walk of native stone, as are the other gardens, each transition accented by two Chinese juniper "sentinels."

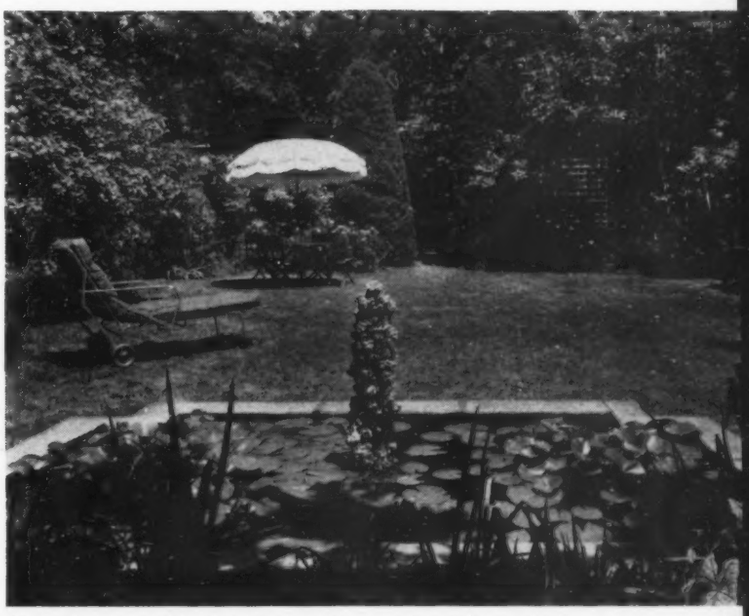
By following the main walk from the daylily garden, visitors pass the rose garden on one side and then quickly find themselves in the formal garden. This outdoor living-room provides cool contrast to the daylily garden (and to the roses as well). It is walled with tall evergreens frosted in front with French lilacs, and is thickly carpeted with Zoysia matrella. A lily pool, sparked with hybrid water-lilies and goldfish darting in and out of the foliage, is the refreshing center of interest. A stone bench terminates the garden, beyond which visitors can catch glimpses of rosy drifts of azaleas tucked away in the shade.

Beyond the formal garden and adjacent to the house is the colorful patio garden, a stone-paved patio and terrace area ideal for outdoor dining. Its shady borders boast many of Mr. Rice's 100 or more azalea shrubs, while close by a triangular bed fairly froths with pink caladiums. Some two dozen potted tuberous begonias [SEE PAGE 91]

F. Edgar Rice's delightful daylily garden (Bartlesville, Oklahoma), where the best new and old varieties—350 strong!—meet.

Walk tying hemerocallis area to coolly contrasting formal garden, walled high with evergreens.

A. T. OWEN PHOTOS



Formal area with lily pool offers cool outdoor living.

June "open-garden" attracts visitors from many states.

100 Favorite IRIS

The Results of the 13th Symposium of the American Iris Society

by **HAROLD W. KNOWLTON**

PRESIDENT, AMERICAN IRIS SOCIETY

This year the American Iris Society chose the favorites on a broader basis than in the 12 previous annual Iris Symposiums. Following the practice of several other flower societies, the balloting was opened to all 4,500 members of the society. Previous symposiums had been limited to accredited judges. About one-quarter of the members sent in ballots—over four times the number of votes cast last year. Since these votes came from all sections of the country, the symposium can fairly be said to contain those iris which are the most widely distributed, the best performers and the best like by our members.

Leading the list for the fourth time is OLA KALA, an intense yellow, very ruffled and a good grower in all parts of the country. It was originated by the late Jacob Sass, one of the leading iris hybridizers for many years. The iris received 1,009 votes out of 1,112 cast, evenly distributed from each of the 21 regions into which the country is divided.

With the exception of LADY MOHR in sixth place, the next seven on the list were blues and purples. SABLE, originated by Paul Cook is a deep black violet that is an all-time favorite. Next comes GREAT LAKES, a blue of classic form originated by L. W. Cousins of Ontario. BLUE RHYTHM is a smooth medium blue which led the symposium in 1951. It has received about every award possible from the American Iris Society—President's Cup, Dykes Medal, highest award of the society, and Award of Merit from the British Iris Society. It was originated by Mrs. Charles G. Whiting of Mapleton, Iowa. BLUE SHIMMER, a Jacob Sass origination, is a large plicata—a white ground with blue stitching around the edge.

LADY MOHR and ELMOHR are outstanding examples of oncobreds. These are derivatives from crosses of oncocyclus and tall bearded iris which produce large, domed iris of exotic appearance.

CHIVALRY is a medium blue of perfect form, ruffled and winner of the Dykes Medal in 1949. It came from Jesse Wills of Nashville, Tennessee. SNOW FLURRY is the first white on the list. A ruffled blue-white originated by Miss Ruth Rees of California, this iris has been on every symposium since 1941. The first red is SOLID MAHOGANY, also from Jacob Sass, who thus produced three out of the first ten.

The following 12 iris have been on all 13 symposiums from 1940 to date: AMIGO, CITY OF LINCOLN, CHINA MAID, ELSA SASS, FAIR ELAINE, GLORIOLE, GOLDEN MAJESTY, GREAT LAKES, PRAIRIE SUNSET, SABLE, THE RED DOUGLAS and WABASH. Whether this list of "favorite" iris is also a list of the "best" is a matter which has been endlessly discussed.

Bearded iris are easily and rapidly raised from seed and many people are producing new varieties [SEE PAGE 93]

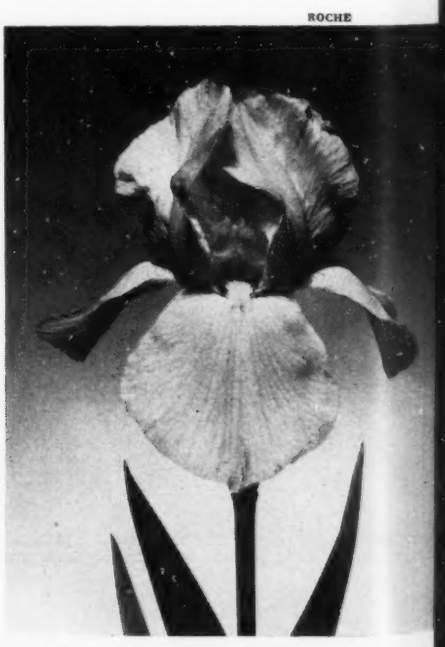
ROCHE

Ola Kala, a ruffled yellow, was tops on the 1952 Iris Symposium.

SWEENEY KRIST AND DIMM

The all-time favorite iris Sable, a deep black violet, took second place honors.

ROCHE



Third choice of American Iris Society members in 1952 was blue Great Lakes.

100 FAVORITE IRIS OF 1952

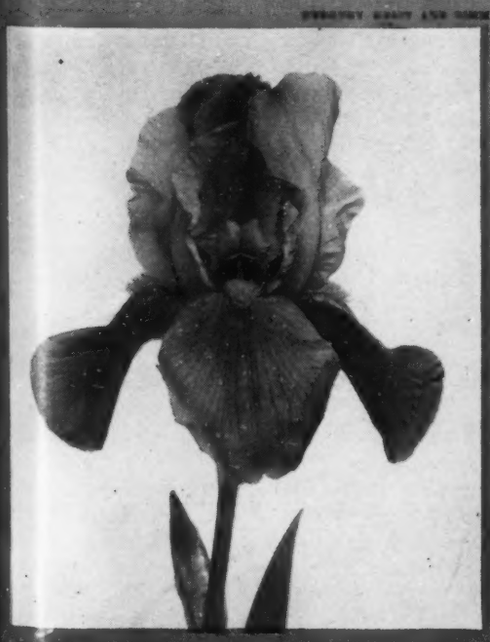
The date following the name denotes the year the variety was introduced; the figure in parentheses indicates its standing in the 1951 Iris Symposium, if it was among the top 100. All varieties are listed in the order of their popularity.

1. Ola Kala '43 DM* (9)
2. Sable '38 (25)
3. Great Lakes '38 DM (16)
4. Blue Rhythm '45 DM (1)
5. Blue Shimmer '42 (3)
6. Lady Mohr '44 (6)
7. Elmohr '42 DM (14)
8. Chivalry '44 DM (7)
9. Snow Flurry '39 (30)
10. Solid Mahogany '44 (15)
11. Pink Cameo '46 (13)
12. Wabash '36 DM (48)
13. Master Charles '43 (8)
14. Minnie Colquitt '42 (23)
15. Bryce Canyon '44 (12)
16. Mulberry Rose '41 (21)
17. Amigo '34 (46)
18. Ranger '43 (19)
19. Helen McGregor '46 DM (5)
20. Azure Skies '43 (18)
21. Cascade Splendor '45 (11)
22. Amandine '46 (2)
23. Chantilly '45 (22)
24. New Snow '46 (10)
25. Cherie '47 DM (4)
26. Prairie Sunset '40 DM (67)
27. Grand Canyon '41 (47)
28. Berkeley Gold '42 (27)
29. Rocket '45 (32)
30. Tiffanja '42 (44)
31. The Red Douglas '37 DM (65)
32. The Admiral '41 (50)

* DM=Dykes Medal Winner

33. Dreamcastle '43 (26)
34. Lady Boscawen '46 (17)
35. Pinnacle '49 (35)
36. China Maid '36 (78)
37. Argus Pheasant '48 (28)
38. Cloth of Gold '45 (41)
39. Katherine Fay '45 (36)
40. Casa Morena '43 (40)
41. Sylvia Murray '44 (33)
42. Missouri '33 DM (72)
43. Ormohr '37 (88)
44. Gloriole '33 (61)
45. Gudrun '30 (69)
46. Three Oaks '43 (55)
47. Tiffany '38 (96)
48. Vatican Purple '43 (53)
49. Desert Song '46 (31)
50. Lynn Langford '46 (49)
51. Elsa Sass '39 (79)
52. Extravaganza '44 (43)
53. Treasure Island '37 (80)
54. Black Forest '45 (39)
55. Fair Elaine '38 (84)
56. Matterhorn '38 (81)
57. Firecracker '43 (56)
58. Spanish Peaks '47 (20)
59. Moonlight Madonna '43 (51)
60. Tobacco Road '42 (66)
61. Los Angeles '27 (75)
62. Distance '46 (38)
63. City of Lincoln '36 (87)
64. Cloud Castle '44 (34)
65. Harriet Thoreau '44 (73)
66. Blue Valley '47 (24)

67. Golden Fleece '40 (63)
68. Garden Glory '43 (37)
69. Winter Carnival '41 (68)
70. Chamois '44 (39)
71. Pink Formal '49 (45)
72. Sharkskin '42 (77)
73. Sierra Blue '32 DM (85)
74. Arab Chief '44 (52)
75. Lothario '42 (62)
76. Spun Gold '40 DM (76)
77. Mexico '43 (70)
78. Louvois '36
79. Gypsy '44 (60)
80. Ming Yellow '38
81. Golden Majesty '38 (86)
82. Golden Treasure '36 (95)
83. Shining Waters '33 (93)
84. Bandmaster '44 (57)
85. Fantasy '47 (42)
86. Daybreak '41 (100)
87. Goldbeater '44 (54)
88. Pierre Menard '48
89. Violet Symphony '40 (58)
90. Zantha '47
91. Snow Carnival '42 (71)
92. Pretty Quadroon '48 (59)
93. Old Parchment '39 (91)
94. Arctic '40 (98)
95. Golden Russet '46 (90)
96. Lighthouse '36
97. The Capitol '44 (92)
98. Miss California '37
99. Christabel '36
100. Priscilla '42 (94)



Prize-winning Blue Rhythm, a smooth medium blue, captured fourth place.

Fifth place went to Blue Shimmer, a large plicata—white ground with blue stitching.

Like the plum on the garage above, espalier trees give maximum beauty, as well as fruit, from a minimum of garden space. Standard trees on dwarf rootstock are grown against a wire support. Branches are pruned to the desired arrangement and tied to support with string. When pruning, it is important not to cut off the short branchlike fruiting spurs.

Espalier Trees for Beauty

TREES TRAINED THIS WAY WILL PROVIDE FRUIT FROM LIMITED GARDEN SPACE

For well over a century, European gardeners have made the most of their garden space, both decoratively and productively, in training fruit trees by the espalier system. This method has many points of value to small property owners.

Fruit trees normally grow quite tall and broad and bear a prodigious quantity of fruit. This is all very well for the orchardist to whom the crop is a business, or for the farmer with unlimited space. But to the home-owner who has a small property, fruit trees in the garden are often more of a nuisance than a boon. They are too big to spray, prune and pick properly; they make too much shade for the flowers and vegetables, and at various seasons they litter the ground with dying blossoms, leaves and over-ripe fruit. For those who want a fair amount of high-quality fruit in a limited space, the European espalier system of training trees is the answer.

Since espaliered fruit trees are grown against a building or on a frame, they take up little garden space. Training may be done along several different patterns but one of the most satisfactory is where matched branches are trained out horizontally on either side of the main trunk. These trees may be placed against buildings or walls or on a free-standing framework to serve as a border or screen between houses or various sections of the garden.

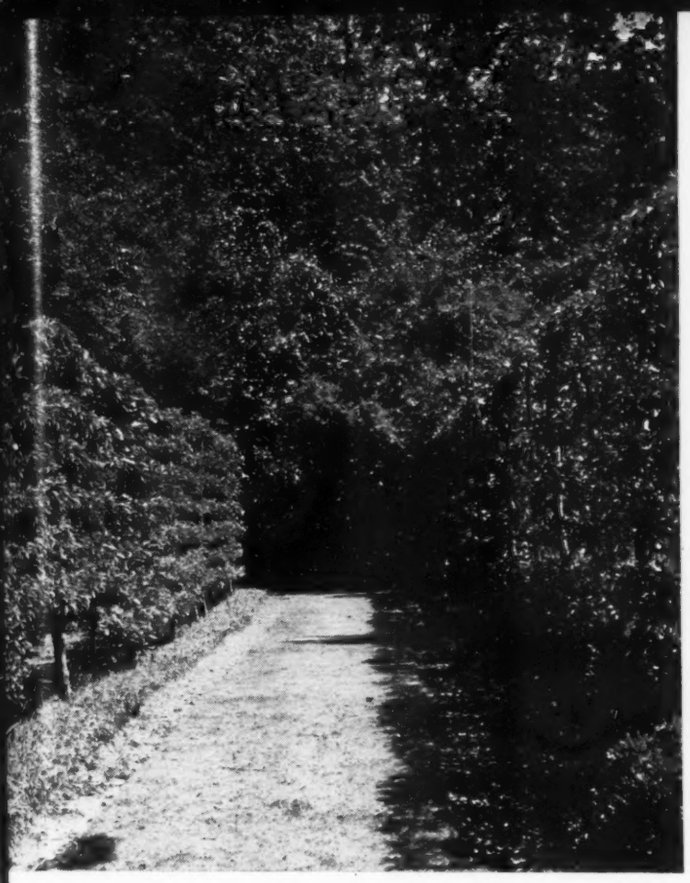
It is wise to provide shade for the trees during part of the day as the fruit does not get much protection against hot summer sun from its own leaves. An eastern or northern exposure is good.

Espalier training can be practiced on standard varieties budded or grafted on dwarfing rootstocks—pears on quince, apples on Mounce or Paradise, plums on Prunus mahaleb, and cherries on Mazzard. When given proper care, espaliered trees will produce a high yield of excellent fruit.

An outstanding use of espalier training has been made by Mr. and Mrs. J. V. G. Posey of Portland, Oregon. At one time they had two Bartlett pear trees trained over a garden arch, and they liked the results so much they decided to enlarge their "orchard." They purchased a group of young trees—pears, apples, and plums—just coming into bearing and already started in the espalier pattern—to line both sides of a grassy garden walk. The two Bartletts were cut back to below the bottom branches and retained as espaliers to join the new group.

For supports, the Poseys installed heavy pipe about 9 feet high every 12 feet along each side of the path. Holes were drilled through the pipes and heavy wire stretched the full length of the rows.

Now the Poseys have a lane approximately 85 feet long bordered by 14 trees, seven to a side, the outstretched branches of which touch in uninterrupted lines of green dur-



The espalier lane of Mr. and Mrs. J. V. G. Posey of Portland, Oregon, runs about 85 feet long. The outstretched branches of the trees touch, forming uninterrupted lines.

and Fruit . . .

by BEN and VIVIAN ALLEN

ing the summer and fall. Spring brings a lovely curtain of blossoms 8 feet high on each side of the walk, and in late summer the tiers of green leaves are studded with brightly colored fruit.

Pear trees seem to be the most popular for espalier training; the Posey group bears out that impression. Of the 14 trees, eight are pears, ranging from the old reliable Bartlett and Anjou to some less well-known but desirable kinds. There are the small Seckel, the old-fashioned Good Louise (Louise Bonne de Jersey), the impressive Vicar of Wakefield (a very large winter pear), and a large regal golden variety Duchesse d'Angouleme.

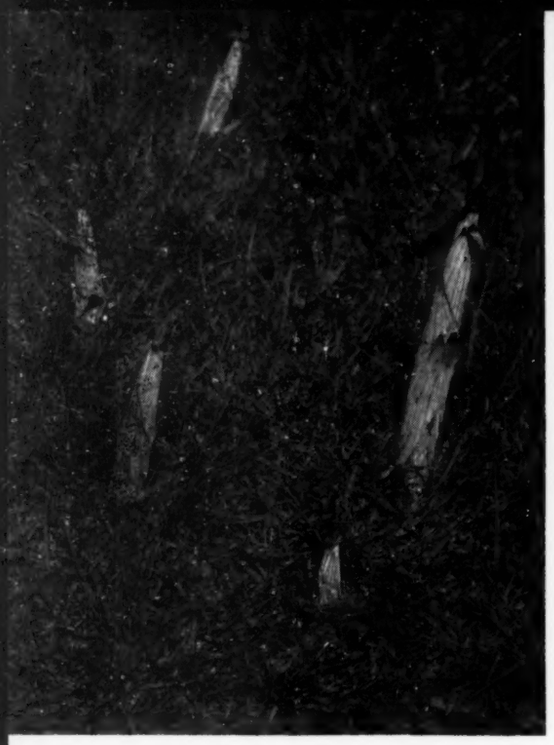
Mingled with the pears are five apples—Gravenstein, Golden Russet and King David—and at the lower end of the line is one Wickson plum. In another part of the garden there is the winter pear Easter Beurre.

Mr. Posey has adopted the espaliers as his special concern and he takes particular care of them. Spraying and cultivating are no different from that practiced with trees of standard shape but pruning is the one attention they demand above all others. It is a job that cannot be done haphazardly or too hurriedly. Mr. Posey gives all the trees a light pruning in spring, usually about April, and concentrates the heavy pruning during August and early September, when growth is the most rapid. [SEE PAGE 97]

The blossoms of espaliers against the weathered brick of an old wall create a spring mural of exquisite beauty.

H. J. ALLEN PHOTOS

When the fruiting season starts, you'll pick normal size fruit from espalier trees, like Duchesse pears *below.*



As bamboo sprouts break ground in May they have already reached their full width—some are 2 inches wide.

The shafts lengthen so rapidly you can almost see them grow. At times the actual rate may approach an inch an hour.

Each cane reaches its full height within three or four weeks. Year-old canes are dark green, mature canes are yellow.

Bamboo Moves Northward

This Ornamental Survives New Jersey Winters

by G. G. NEARING (N.J.)

PHOTOGRAPHS BY THE AUTHOR

This exotic clump has thrived for three years in Mountain Lakes, N. J. It survived a temperature of 6° below zero.

BAMBOO. The very word conjures up pictures of a lush tropical jungle steaming under a downpour of rain —or of arching, swaying canes tossing their luxuriant burden of foliage along river banks where crocodiles bask and birds of paradise preen their splendid plumage.

Warm-climate gardens in the Orient have long made full use of the more decorative bamboo species. All through the tropics and as far north as central Japan and the Channel coast of England, their spell is firmly rooted. Clumps of feathery bamboo along a stream or lake shore lend inimitable grace to any scene.

Our own southern states and Far West, although possessing unspectacular native canes, have slowly adopted the larger, more lavish Orientals, not only for ornament but for their countless uses in fishing poles, stakes, screens and furniture. In recent years roots of the more serviceable kinds have been offered by the U. S. Department of Agriculture to planters in appropriate areas as novel crop plants.

Just how far north the hardy bamboo will persist remains to be proved, since probably few experimental plantings of the original distribution were made under the most favorable of conditions. But certainly the bamboo will have a good chance in southern Massachusetts and Connecticut, central New Jersey, southern Pennsylvania and perhaps the valley of the Ohio.

It was once believed that only dwarf bamboos could survive for long in the North, notably the tiny groundcover Pleioblastus pygmaeus and the shrubby broad-leaved Sasa tessellata (Bambusa tessellata). But in 1931 a really tall species, Phyllostachys aureosulcata (formerly P. nevini), successfully crossed the Mason-Dixon Line to the northern tip of Delaware, not far from Philadelphia. It now forms a dense clump, nearly a quarter acre in size, which stands about 30 feet high. This planting has endured a temperature of 19° below zero (1934) with little injury—and that soon healed.

Three years ago a root from that clump was brought to Mountain Lakes in northern New Jersey, where it has thrived, already attaining a stature of nearly 14 feet. Last winter a night of 6° below zero did not injure it.

Gardeners accustomed only to northern plants may find the ways of this bamboo quite strange. Each cane springing from the root in May reaches its full height within three or four weeks. Although the stalk [SEE PAGE 96]

We Raise Bamboo Sprouts

You Can Eat Your Bamboo and Have It Too! **by VERA THOMAS (Va.)**

If there's one commodity we won't be short on, it's bamboo sprouts. Some years ago we received from the Beltsville, Maryland, station of the U. S. Department of Agriculture some roots of yellow-groove bamboo, Phyllostachys aureosulcata. They grew and grew, they spread and spread! In fact, they would *still* be spreading, except that we cut shoots every spring to eat and often dig roots for friends who want to start a bamboo hedge or grove of their own.

Jack's bean-stalk is hardly more of a wonder than the bamboo's rapid climb from earth to sky. One of our taller plants measured 33 feet—and that height was attained in little more than a month! The diameter of the canes was often 2 inches. Our lowest temperature, 3° below zero, frosted foliage only on plants at the very edges of our bamboo grove.

We have furnished innumerable fishing poles for the asking. Vaulting poles for playgrounds have been cut from the larger canes. No stalk is cut until its third season, when it has attained its full strength. Another use which is dear to our hearts is for making canes for the weak and the old. With a rubber tip at one end, a length of bamboo makes an excellent lightweight cane, providing an invaluable aid to those who need support without any added weight to carry. Bamboo stakes for vegetables and flowers which require support are attractive as well as effective in the garden.

California engineers have recently perfected a new, practical method of joining bamboo sections which promises to greatly increase its economic value, especially in the making of furniture.

A nurseryman from a nearby town stopped one day to ask for some roots to create a jungle in the children's fairyland section of the town park. One of our problems in raising Chinese bamboo has been to protect it from the trampling of small feet. Children exploring the wilds of a strange and wonderful growth sometimes accidentally kick the tender new shoots.

One city friend's yard backed up against an ugly red factory. Bamboo, kept in line, made a lovely screen of feathery foliage summer and winter. But he had no success at all with bamboo on his country property. His cattle and other livestock knew a tasty dish when they saw it, and somehow they always managed to see it!

Once we wrote the Department of Agriculture for information as to the edibility of the succulent [SEE PAGE 92]

AUTHOR PHOTOS

Sturdy as a fence yet decorative too, this bamboo planting in the mid-south delights children and grownups alike.

Each spring succulent bamboo sprouts from the author's Virginia grove supply an abundance of this Oriental delicacy.

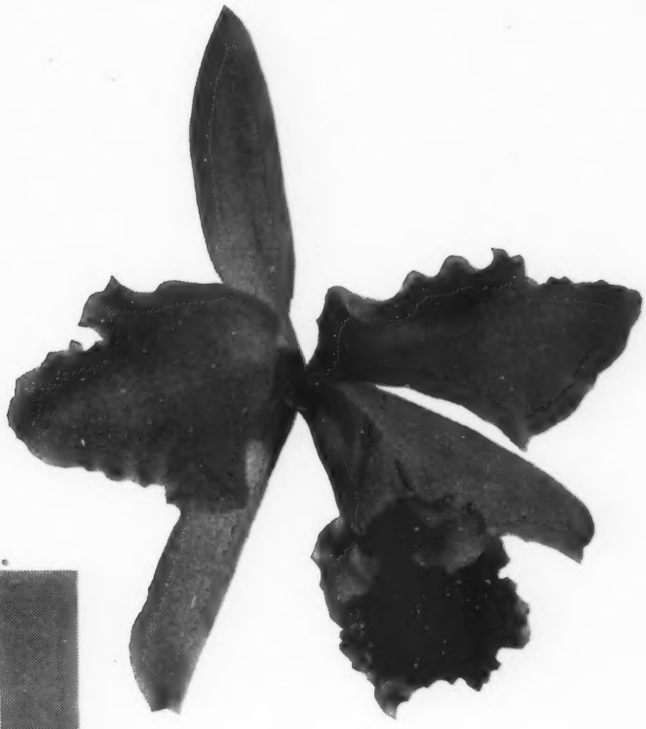
Flowers of the Nations . . .

by JOHN ASCH

Flowers of peace . . . flowers of war . . . flowers of history . . . flowers of hope!

National flowers are rarely deliberately chosen. They spring from the history, tradition and living of a people. They are brought into a country by the conqueror, as the tulip of Turkey, and over the centuries are assimilated and nationalized. Or they are honored because of their economic importance, as the sunflower of Russia. Or they are knighted on the field of battle, as the leek of Wales. Or—more rarely—they represent the hopes and aspirations of a people, as the olive branch of the United Nations and Israel. The birth, history, struggle for survival and future of nations are symbolized in their national flowers. Only one country—the United States—has no national flower at all!

COUNTRY	PLANT	SCIENTIFIC NAME
UNITED NATIONS	Olive tree	Olea europaea
ARABIA	Date tree	Phoenix dactylifera
ARGENTINA	Ceibo tree (Coral-bean tree; God tree)	Erythrina crista-galli
ARMENIA	Windflower	Anemone coronaria
ASIA MINOR	Windflower	Anemone coronaria
AUSTRALIA	Wattle (Mimosa)	Acacia longifolia
	Blue gum-tree	Eucalyptus globulus
AUSTRIA	Edelweiss	Leontopodium alpinum
	White lily	Lilium species
BELGIUM	Azalea	Rhododendron simsi
	Red poppy	Papaver rhoeas
BOLIVIA	Cantua (Khantua; Inca magic flower)	Cantua buxifolia
BORNEO	Tapang tree (King of the forest)	Abauria species
	Nipa palm tree	Nipa fruticans
BRAZIL	Cattleya orchid	Cattleya species
	Croton	Codiaeum variegatum
	Ipe (Trumpet bush)	Tecoma araliacea
BULGARIA	Red rose	Rosa aromatica
BURMA	Sal dammar tree	Shorea robusta
CANADA	Leaf of maple tree	Acer rubrum; A. saccharum
CHILE	Copihue (Red Chile-bellflower)	Lapageria rosea
CHINA	Lotus	Nelumbo nucifera
	Peony	Paeonia lactiflora
	Apricot tree	Prunus mume
	Narcissus (Chinese sacred lily)	N. tazetta orientalis
COLOMBIA	Flor de mayo (Cattleya mayflower)	Cattleya trianae
COSTA RICA	Flor de San Sebastian (Guaria orchid)	Cattleya skinneri
CUBA	Cane of amber (Garland flower; Ginger lily)	Hedychium coronarium
	Royal palm tree	Roystonea regia
CZECHOSLOVAKIA	Rose	Rosa species
	Carnation	Dianthus caryophyllus
	Linden tree	Tilia europaea
DENMARK	Red clover	Trifolium pratense
	Holly	Ilex aquifolium
	Beech tree	Fagus sylvatica
DOMINICAN REPUBLIC	Caoba tree (Mahogany tree)	Swietenia mahogani
ECUADOR	White nun orchid	Lycaste skinneri
	Peruvian bark tree (Red cinchona)	Cinchona succirubra
EGYPT	Egyptian lotus (Water-lily)	Nymphaea lotus
EL SALVADORE	Coffee tree	Coffea arabica
ENGLAND	Rose	Rosa species
ERITREA	Calla	Zantedeschia species
FINLAND	Lily-of-the-valley	Convallaria majalis
	Oak tree	Quercus species
FRANCE		
From Charlemagne to Louis XVI	Fleur-de-lis (Iris)	Iris species
1830 to date	Tricolor:	
	Cornflower (blue)	Centaurea cyanus
	Ox-eye daisy (white)	Chrysanthemum leucanthemum
	Poppy (red)	Papaver rhoeas
GERMANY	Cornflower	Centaurea cyanus
GREECE	Acanthus (Bears breach)	Acanthus mollis
GUATEMALA	White nun orchid	Lycaste skinneri
HONDURAS	Rose	Rosa species
HUNGARY	Tulip	Tulipa species
INDIA	Blue lotus	Nelumbium nucifera
	Peepul tree (Bo tree)	Ficus religiosa
IRAN	Red rose	Rosa species
IRAQ	Date tree	Phoenix dactylifera
IRELAND	Shamrock	Trifolium species
SRAEL	Olive tree	Olea europaea
ITALY	Ox-eye daisy	Chrysanthemum leucanthemum
	Fleur-de-lis	Iris species
JAPAN	Chrysanthemum	Chrysanthemum species
	Cherry tree	Prunus serrulata
KOREA	Hollyhock	Althaea rosea
LIECHTENSTEIN	Orange lily	Lilium bulbiferum croceum
LITHUANIA	Rue	Ruta graveolens
MANCHUKIO	Orchid	Orchis species
MEXICO	Dahlia	Dahlia species
	Prickly pear	Nopalea cochinellifera
	Moriche palm tree	Mauritia flexuosa
NETHERLANDS	Marigold	Calendula species
	Orange lily	Lilium bulbiferum
	Tulip	Tulipa species
	Orange tree	Citrus sinensis
NEW ZEALAND	Mullein	Verbascum species
NICARAGUA	Cane of amber (Garland flower; Ginger lily)	Hedychium coronarium
	White heliotrope	Heliotropium species
NORWAY	Heather	Calluna vulgaris
	Spruce tree	Picea species



COUNTRY	PLANT	SCIENTIFIC NAME
PANAMA	Holy Ghost orchid	Peristeria elata
	Panama tree	Sterculia apetala
PARAGUAY	Jasmine of Paraguay	Brunfelsia hopeana (B. solanacea)
	Lapacho tree	Tabebuia species
PERU	Cantua (Inca magic flower)	Cantua buxifolia
POLAND	Ox-eye daisy	Chrysanthemum leucanthemum
	Pansy	Viola tricolor
	Poppy	Papaver orientale
	Rose mallow	Althaea rosea
PORTUGAL	Lavender	Lavandula stoechas
	White violet	Viola species
RUMANIA	White rose	Rosa species
SAN SALVADOR	Coffee tree	Coffea arabica
SCOTLAND	Purple thistle	Onopordum acanthium
SPAIN	Carnation	Dianthus caryophyllus
	Pomegranate tree	Punica granatum
SWEDEN	Lily-of-the-valley	Convallaria majalis
	Amaranth	Amaranthus species
	Twin-flower	Linnaea borealis
	Ox-eye daisy	Chrysanthemum leucanthemum
SWITZERLAND	Rose of the Alps	Rhododendron ferrugineum
	Edelweiss	Leontopodium alpinum
TIBET	Rose apple	Syzygium jambos
TURKEY	Tulip	Tulipa species
	Rose	Rosa species
UNION OF SOUTH AFRICA	Wagen boom	Protea gigante
UNITED STATES OF AMERICA	(No official national flower)	
Nature Magazine, March, 1930, poll results:	Wild rose	Rosa species
	Columbine	Aquilegia species
	Violet	Viola species
	Goldenrod	Solidago species
U. S. S. R.	Sunflower	Helianthus annuus
URUGUAY	Ceibo tree (God tree)	Erythrina crista-galli
VENEZUELA	Venezuelian orchid	Catasetum pileatum
WALES	Leek	Allium porrum
	Narcissus	Narcissus species
	Oak tree	Quercus species
WEST INDIES	Frangipani tree	Plumeria species
YUGOSLAVIA	Linden tree	Tilia europaea

PRODUCTS COURTESY MAX SCHLING SEEDSMEN

BETTER GARDENI

by P. P. PIRONE
THE NEW YORK BOTANICAL GARDEN

NG with chemicals

Garden chemicals are available in greater numbers this year than ever before. Several new insecticides and plant growth regulators have been introduced for home use and, in addition, most of the "old reliables" are still around to help make gardening more enjoyable and more successful.

Malathon is perhaps the most important newcomer in the field of insect and mite control for 1953. This recently announced organic phosphate combines high insect- and mite-killing power with a low order of toxicity to man, pets and plants. Malathon, which was developed by American Cyanamid Company, will help home gardeners solve many insect problems on fruit trees, vegetables and flowers as effectively as parathion does for commercial growers. It appears especially effective against the "hard-to-kill" insects. One research worker found, for example, that a single spray containing one ounce of 50% Malathon emulsion in three gallons of water gave 100% control of young and adult stages of mealybug. Euonymus scale was controlled with four ounces of the emulsion in three gallons of water.

Malathon will be specially formulated and packaged by many well-known manufacturers and should be available by the time this article is printed.

Where mites alone are a problem, gardeners can use any one of several excellent miticides. Mite-killers with long-lasting residual effects include Aramite, Dimite, Ovotran and Sulphenone. Malathon, mentioned above, is also effective against mites.

DDT sprays and dusts still hold an important place in the control of certain insects, especially borers in lilac, peach, birch, ash, dogwood, apple and mountain ash. Two applications at two-week intervals of a spray containing one pound of 50% wettable DDT in 25 gallons of water will give good control of these pests. The time to apply the first spray varies with the locality. State and federal entomologists will be glad to supply this information on request.

Gardeners should remember that frequent and heavy doses of DDT may injure some plants and may increase the mite population on others. If the latter situation arises, one

of the miticides already mentioned can be used. As a matter of fact, some gardeners include a miticide in the DDT spray as a precautionary measure.

Lindane is another of the newer insecticides which will be used in greater amounts this year because it controls several highly destructive insects. One ounce of 25% wettable lindane powder in six gallons of water sprayed on the leaves of birches gives good control of the birch leaf miner. This spray should be applied when the leaves are well expanded—by May 15 in northeastern United States. A second spray should be applied six weeks after the first to control the second generation of this pest.

Lacebugs on andromeda, azalea, hawthorn, oak, sycamore and rhododendron can be controlled with two applications of the same spray. Here, too, state and federal entomologists will supply on request the recommended starting dates for spraying particular plants.

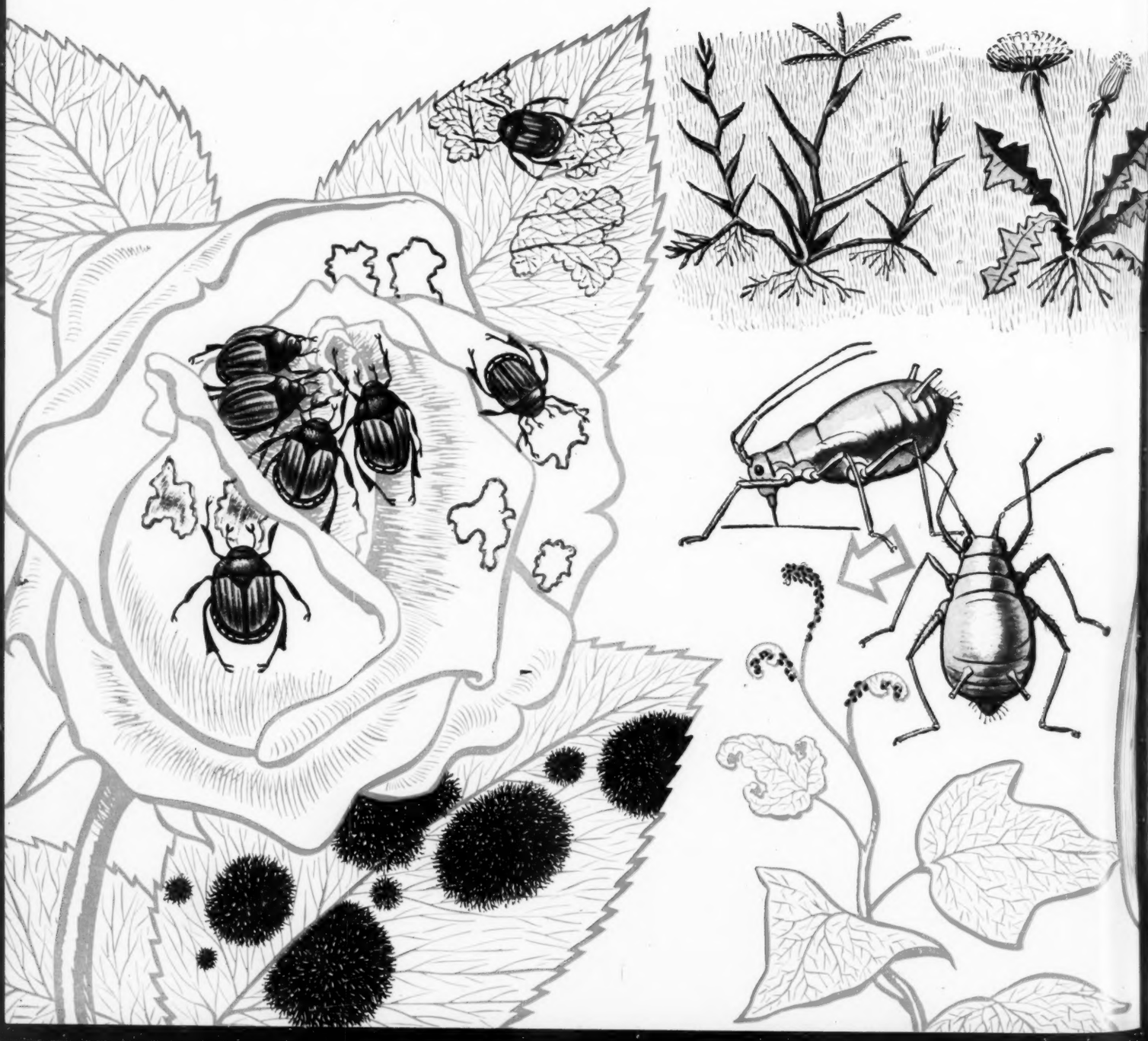
Chlordane Also Excellent

Chlordane will be in good supply for the control of certain other pests. One ounce of actual chlordane distributed over an area of 1,000 square feet will control chinch bugs and cutworms. Four ounces of actual chlordane for each 1,000 square feet will control the grubs of Japanese beetle, oriental beetle, Asiatic beetle, May beetle and rose chafer. DDT may also be used to check Japanese and oriental beetle grubs.

Systemic Insecticides

Much will be written this year about so-called systemic insecticides. These are chemicals absorbed by plants from solution applied either to the soil or to the leaves so that the plant sap becomes toxic to certain sucking

CHEMICALS SAVE TIME, MONEY AND EFFORT IN COMBATTING



and chewing insects. Such materials are obviously applied to ornamental plants only. Until recently the best known chemicals used as systemic insecticides were sodium selenate and parathion. Selenate compounds are available under the trade names Kapsulate, Sel Kaps and P-40. Now two new systemic insecticides—Pestox 3 and Systox—have reached commercial development.

New House Plant Bombs

Apartment house dwellers and other house plant enthusiasts will be most interested in the development of an insecticide bomb for use on house plants. It is called D-X Aero-Spray and is made by the B. G. Pratt Company of Hackensack, New Jersey. The old-fashioned hand sprayer is no longer needed since this spray comes in a can under pressure. All one needs to do is push down a button to release the insecticide containing pyrethrum, rotenone and piperonyl cyclonene. It is recommended for use on such plants as African violet, Boston fern, English ivy, fuchsia, Kentia palm and rubber plant, Aphids, spider mites, thrips and white fly are some of the pests it checks.

The Antrol Push-Button Rose Spray flower bomb, manufactured by Boyle-Midway, Inc. of New York, also releases a combination of insecticides to control aphids, Japanese beetles, leafhoppers and thrips on roses.

Old Reliables

Despite the introduction of new insecticides, many of the old-time products continue to do a good job of controlling pests. Rotenone sprays and dusts are still popular, time-tested and non-poisonous (to humans and pets). They find their greatest use on edible crops like beans, lettuce and spinach. Arsenate of lead and nicotine sulfate, although poisonous to humans and pets, can still be used for the non-edibles, such as trees and shrubs.

Fungicides

Gardeners who wonder why so-called "wonder drugs" are not used to control plant diseases will be interested to learn that the Upjohn Company is marketing an antibiotic which does just that. Known as Acti-dione, it controls certain diseases of golf putting greens, including the one called "melting out" for which no other control measure is known. Here then, is a company which manufactures drugs for the health of man and animals and also makes an antibiotic for combating plant diseases!

Other available fungicides include Ferbam for the control of cherry and peach brown rot, tomato leafspot, apple scab, rose blackspot and cedar rust; Ziram for early tomato and potato blights, celery blights, bean anthracnose and carrot, beet and pepper leafspots; and Nabam for cucumber, cantaloupe and onion mildew diseases. Also available will be the "old reliables" of the plant doctor's kit, the copper and sulfur compounds, sold under many different trade names.

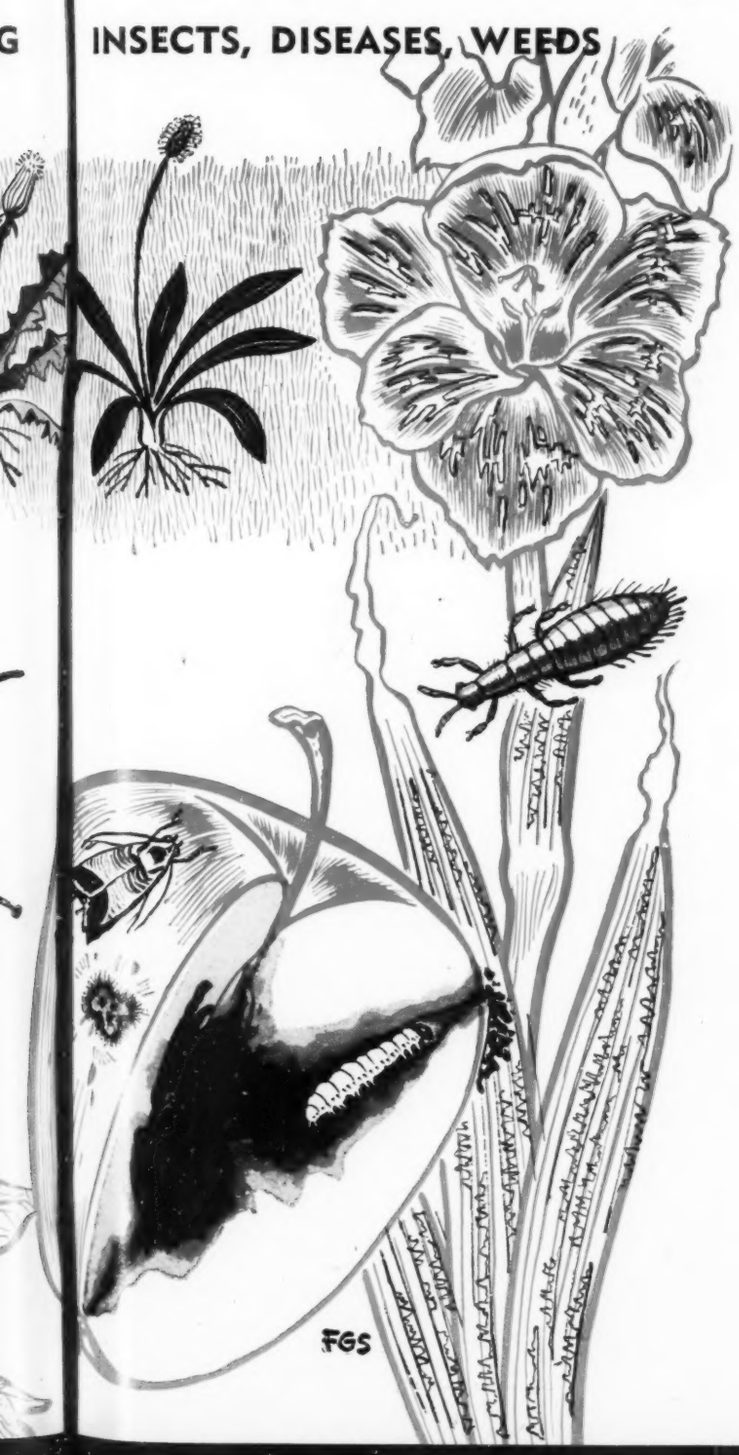
A number of manufacturers have prepared combination sprays for fruit trees which contain both insecticides and fungicides. These merely require dilution in water before application.

Weed Control

Most gardeners know about the selective weed killers containing 2,4-D which are highly effective in ridding lawns of dandelions and plantain. One of the principal drawbacks of weed killers of this type is their high volatility. Fumes from 2,4-D spray often damage trees, shrubs and vegetables growing near the lawns being treated.

To overcome this serious drawback, many of the new weed killers containing 2,4-D and 2,4,5-T are formulated with the so-called butoxy ethanol esters which do not volatilize and hence are not apt to damage nearby plants.

For crabgrass control, the two best chemicals thus



UNITED STATES RUBBER CO. PHOTOS

Kill weeds *before* they appear by using one of the new pre-emergence weed killers. Their effectiveness is seen here. Cucumbers in the row treated immediately after planting are clean; in the untreated row they are choked by weeds.

UNION CARBIDE & CARBON CORP.

Proper use of fungicides improves both fruit quality and quantity. Clean apples at left came from a sprayed tree; scabby fruit at right, from one unprotected by fungicide.

far developed are potassium cyanate and phenyl mercury acetate. They are sold under a dozen different trade names. Directions must be followed to the letter to control crabgrass, yet avoid injury to desirable grasses and harm to humans and pets.

Weeding of certain crops has been greatly facilitated by a new pre-emergence type of herbicide. Strawberries and asparagus, and other perennials still under tests, are kept weed free by spraying Crag Herbicide 1 on the soil after cultivating. Crag has almost no effect on mature foliage of either weeds or garden plants. It works in the soil by killing seedlings less than ½-inch high. Some of the older chemicals can also be used in this manner. Alanap is a new pre-emergence herbicide.

Poison Ivy Control

Ammate will continue to be one of the most popular poison ivy destroyers. When used to kill poison ivy growing on a desirable tree, the spray should be applied to the ivy leaves only and not allowed to touch the tree's foliage. Nor should too much Ammate be allowed to soak into the bark or soil. Ammate is not highly selective. It will kill other vegetation in close contact with poison ivy.

Mixtures of 2,4-D and 2,4,5-T will also destroy poison ivy and other woody vegetation. These are known as "brush-killers" or "woody-plant killers."

Where eradication of all vegetation is desired, the new powerful, non-selective weed killer known as CMU is recommended. CMU comes as a powder to mix with water. One spraying when weeds and grass are just starting to grow in spring will give control for an entire season or longer. It is nonflammable, nonvolatile and noncorrosive to equipment.

Many of the time-tested general weed killers containing arsenites or chlorates will also be in good supply this year.

Selective Clover Killer

Most gardeners like to have some clover in their lawns. On golf putting greens, however, clover is highly undesirable. For such situations, scientists have developed the chemical Endothol which has a special affinity for legumes. It destroys clover without harming grasses. This product is sold under the trade names Clover-Kil and Clovercide.

Anti-Sprouting Hormones

Fusarex is a new potato sprout inhibitor containing 3% tetrachloronitrobenzene. It prevents excessive sprouting for three to six months when applied at storage time at the rate of three ounces to a bushel of potatoes.

Other sprout inhibitors containing naphthaleneacetic acid will also retard sprouting of potatoes. These are commercially available as Dormatone, Sprout Lok and Potato Fix.

Growth Regulators

Another chemical that will be welcomed by home owners, especially those with large lawns, is the growth regulator maleic hydrazide, developed by the United

States Rubber Company. The early formulation of this product, a liquid known as MH30, was found capable of checking or slowing the growth of certain shrubs and grasses. It had several drawbacks, however, and was never put on the open market.

Now the company has made available an improved formulation, MH40, a dry water-soluble powder containing 40% active maleic hydrazide. It will be marketed this spring under such trade names as Kem-Kut, Stop-Grass and the like. When sprayed on lawns as directed it will slow down the growth rate of the grass. As a result, treated lawns need to be mowed less frequently.

Seedless Tomato Hormones

Firmer, meatier tomatoes can be produced well ahead of the usual fruiting date by use of "blossom-set" chemicals which take the place of natural fruit-setting hormones. The chemicals make the blossoms set fruit despite low night temperatures and lack of pollination and fertilization. Among the trade names for these chemicals are Blossom-set, Sure-Set, Tomato Set and Seed-Less-Set.

Rooting Hormones

Certain synthetic hormones are a great aid to plant propagation because they hasten and increase the formation of roots on cuttings. These rooting preparations are of two kinds: indolebutyric acid (Hormodin) and naphthaleneacetic acid and its related compounds (Rootone). Both types are available in different strengths because some cuttings require greater stimulus than others.

Snail and Slug Controls

Partially shaded flower and vegetable gardens are ideal spots for the development of snails and slugs. To control these pests there is nothing better than specially prepared baits containing the chemical metaldehyde as the attractant and an arsenical as the poisoning agent. These baits are sold in most seed stores under a half dozen different trade names.

Repellent Chemicals

Damage by rabbit and deer can be reduced by spraying with the material known as Goodrite z. i. p. One application of z. i. p. during the growing season will break animals of feeding in that particular area. Subsequent applications to protect new growth are usually effective in reduced concentration. This repellent should not be applied to plants about to be harvested, nor to edible plants such as lettuce or other greens. It can be used on carrots, peas and up to the blossom stage of snap beans. Goodrite z. i. p. is compatible with many insecticides including nicotine sulfate, pyrethrum and lime-sulfur.

Anti-Desiccants

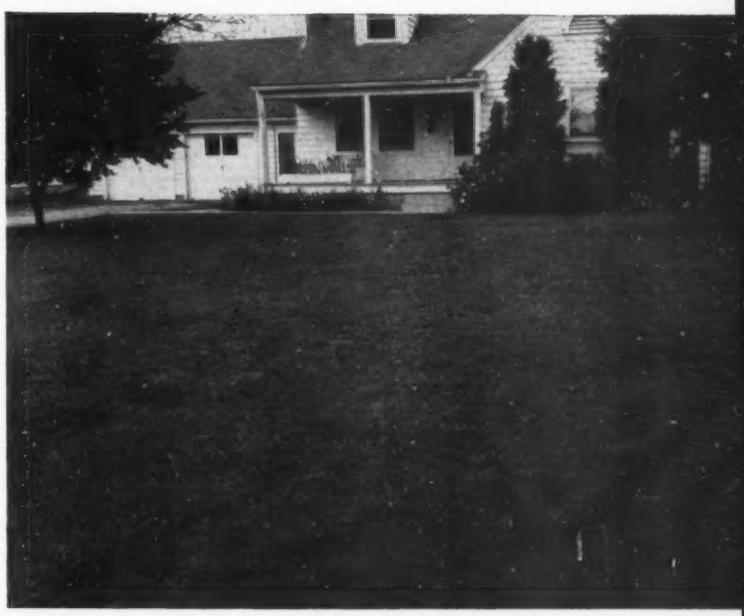
Death of newly moved trees and shrubs due to excessive water loss can be virtually eliminated by spraying them before digging with the material known as Wilt-Pruf. Conifers and broad-leaved evergreens, as well as deciduous trees and shrubs in leaf, are more safely transplanted and will survive drought and transplanting shock better when sprayed with Wilt-Pruf as directed by the manufacturer, Nursery Specialty Products of Eastview, New York.

Soil Conditioners

Confusion should be somewhat reduced this year now that the flood of new soil conditioners has subsided. Some brands widely advertised last year have already disappeared from the shelves. Select a soil conditioner put up by a company of unquestionable reputation. Such firms have usually been in business a long time and cannot afford to market an inferior product. State and federal agronomists will advise in the selection of an effective synthetic soil conditioner.

Gardeners should always remember that not all the know-how of the world's greatest chemists is ever likely to devise a packaged substitute for sound gardening fundamentals and good old common sense.▶

SCOTT LAWN RESEARCH PHOTOS



Selective herbicides containing 2,4-D rid lawns of dandelions and plantain, as these before-and-after photographs attest. Other chemicals will control crabgrass in lawn.

BETTER GARDENING with chemicals (*Continued*)

To Get Good Results You Need Good Equipment

by **FRANK J. ZINK**

SECRETARY AND COUNSEL, NATIONAL SPRAYER AND DUSTER ASSOCIATION

THERE'S good news in the war on garden pests: the struggle grows easier by the season.

Thanks to recent improvements in spraying and dusting equipment, you can go forward to battle in 1953 assured of winning with a minimum of effort. New designs make garden spraying and dusting practically a push-button job. And even if you are not in the market for new equipment, you can modernize what you have with new laborsaving accessories.

In making equipment easier to operate, manufacturers have recognized a general need. Chief deterrent to victory in the battle against bugs is the fact that humans tire more quickly than insects. The new insecticides and herbicides are vastly superior weapons, but unless they are used with promptness and regularity, the enemy—crawling, chewing, flying insects, blight, weeds—will win the day.

Fortunately, sprayers and dusters for the 1953 season operate so smoothly their use becomes a pleasure rather than a chore. A gardener looking at the new models can really look forward to slinging one over his shoulder or on his back knapsack-style and going to work. For now, getting spray on the undersides of rose leaves or shooting dust on every part of nicotianas requires no gymnastics. Nor does treating a large lawn for weeds mean heavy labor. And there's no wrestling with screws and parts in shifting from one type of spraying to another—say from floating a gentle mist over roses to shooting a tall stream into trees.

Garden stores offer a wide variety of equipment for insect control this season, for the many new pest-killing chemicals call for diversified equipment. However, the home gardener need not be dismayed at the large selection. Manufacturers realize he may not want to set up an insect arsenal in his home, and they have given thought to making versatile equipment that fills a number of needs. As a result, multiplicity of use is a feature of much new equipment.

For example, to destroy flying insects one may wish to produce a mist or fog which will stay suspended in the air for a time so the insects may fly through it. But to combat crawling insects a residual spray may be needed.

Plunger Duster with Adjustable Nozzle

Siphon Hose Attachment

Bucket Pump Sprayer

Lightweight Compression Sprayer

Knapsack Sprayer

Rotary Duster

This calls for heavy droplets that wet the surface. Adjustable nozzles enable the user to shift from one type of spray to the other with a light turn of the fingers.

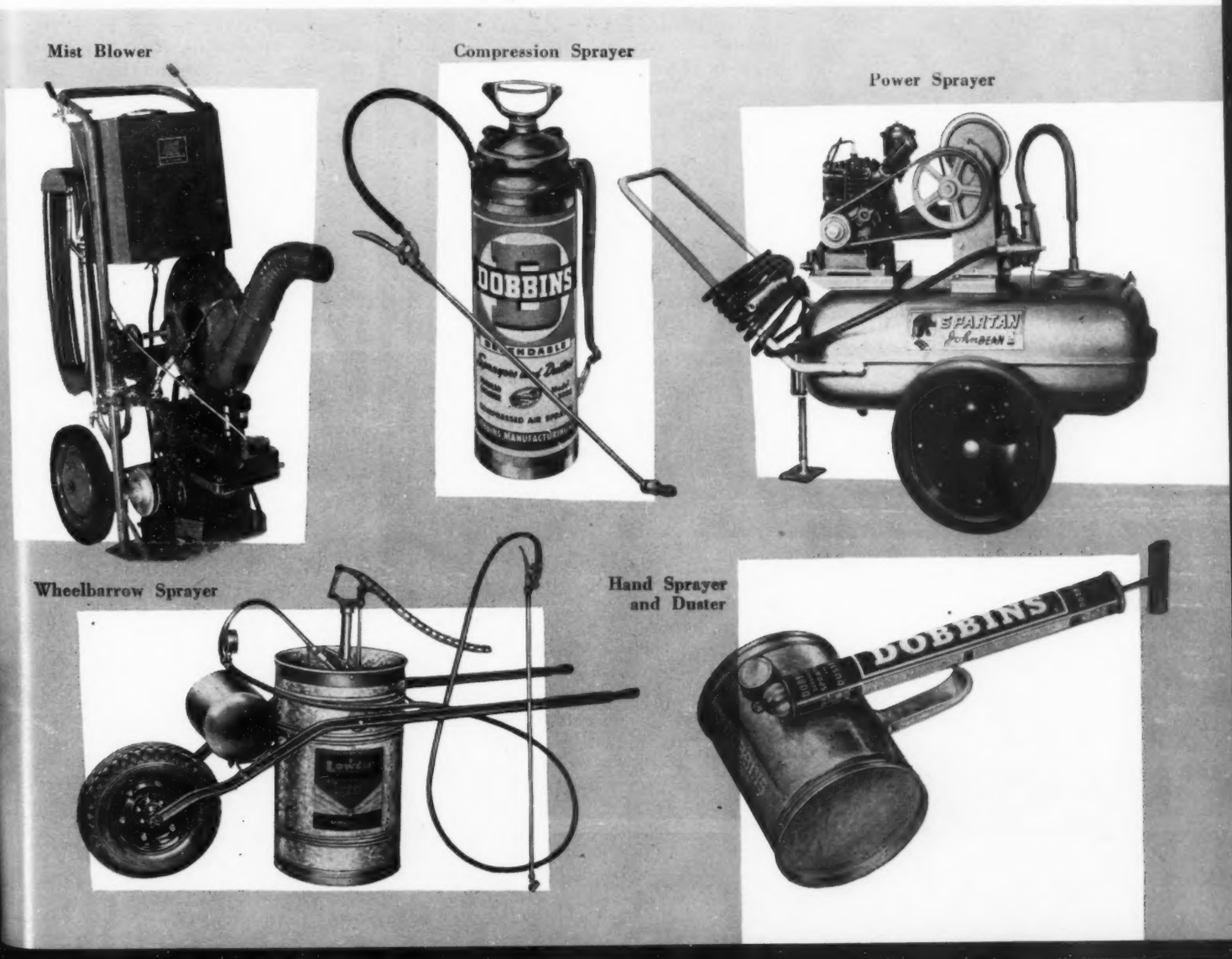
Many excellent compression type sprayers are available. In these, pressure is built up by means of a hand-operated air pump, and the liquid expelled through precision discharge equipment. Hand pumping is not difficult, but manufacturers are not content to stop with improvements that just make it easier. With an eye to pleasing the ladies, they have come out with a sprayer that requires no pumping at all! A cylinder of carbon dioxide provides power capable of actuating 15 gallons of spray chemical.

A leading 65-year-old concern is making an especial appeal to the woman gardener with two new items. One is a sliding pump sprayer which this manufacturer says is so light *madame* herself can reach the tops of trees with the 20-foot spray. Both up and down strokes propel the spray. The hose is attached at an angle to give the user a better grip. An adjustable nozzle makes it possible to also use this sprayer to produce a fog-mist for delicate flowers and a coarse spray for wetting broad surfaces with insecticides. The other model is similar in function but is of the compressed air type.

Another improvement designed to please both men and women is the spray cart, a little two-wheeler, like a gocart, on which the sprayer can be placed for easy moving. You may have a wide expanse of lawn, brightly spotted with dandelions. Digging the weeds is out of the question unless you feel the urge to perform a deed of heroism. (And who does?) Instead, mount your sprayer upon this cart, equip it with a boom to widen its spread, pump up pressure, and go off to slay the pest. The boom, which is extended at right angles to the original nozzle, has two or three nozzles of its own and sprays a path as wide as the swathe cut by your lawnmower. You may be far from your source of water and your lawn may be broad, but thanks to cart and boom the job is done easily. Where chiggers are a problem, the same technique can be used.

The multi-nozzle boom attachment comes in handy when the family decides to take up outdoor living and eat its meals on the patio. Although you would never think it from the pictures on magazine covers, outdoor meals are an invitation to all the neighborhood flies and mosquitoes—unless you forestall the invasion by spraying. With a boom attached to the compression sprayer you can get an insecticide into the insect hiding places—lawns and foundation plantings—in a minimum of time. If you can persuade your neighbors to cooperate, only occasional spraying during the summer will be necessary. Then you can bring out the hamburgers, spread the table with salads and sweets, and really enjoy outdoor meals beside the petunias and the marigolds, without signaling a fly invasion.

The range in size and power of [SEE NEXT PAGE]



Mist Blower

Compression Sprayer

Power Sprayer

Wheelbarrow Sprayer

Hand Sprayer and Duster

make gardens thrive

USE NEW, SLOW-SOLUBLE FORM OF TRACE ELEMENTS

Now, for the first time, you can make one application of vital trace elements last all season long. New *slow-soluble* FTE* (Fritted Trace Elements), worked into your plant root area, will stay available as a constant source of nutritious mineral elements, *all season.*

FTE contains iron, manganese, copper, zinc, boron, and molybdenum —trace elements commonly used by nurserymen, truck gardeners and farmers to promote healthy growth and full yields. The *slow-soluble* feature of FTE, however, makes FTE *the most economical form of trace elements you can buy.* Only one application will give your plants all the minerals they need for healthy, luxurious growth. FTE is also nontoxic.

Don't miss the full beauty and satisfaction your garden can give. Make sure your plants have vital elements available for the whole growing season. Ask your dealer for FTE today!

du Pont DISTRIBUTED

FTE is now available for direct soil application in a 1-lb. canister, or in 5-lb. and 50-lb. bags, through *E. I. du Pont de Nemours & Co., Inc., garden product distributors.* Normal application is 1 lb. per 400 sq. ft.

FTE is also available as an additive in commercial fertilizers. Look for "FTE" on labels or bags. For further information write Ferro Corporation, Cleveland 5, Ohio. In Canada, write Ferro Enamels (Canada) Ltd., Oakville, Ontario.

Write for Free Bulletin

FERRO

F·T·E

(Fritted Trace Elements)

* Patent applied for

Trademark

sprayers now available is very great. They start with a little five-ounce hand sprayer suitable for flower box use and extend to the tractor-drawn type holding 150 gallons of liquid under 800 pounds of pressure, and spreading destruction to insects in the fields at a rate of three miles an hour. Some of these have as many as 25 nozzles on their booms and reach eight rows of crops at a time.

For fairly large jobs there are 25- to 50-gallon units powered by air-cooled engines with piston type pumps and positive agitators for keeping the spray solution properly mixed. These can be attached to tractor or jeep for field work. Booms of various lengths can be used with them for field spraying.

Smaller in size are the mechanized wheelbarrow sprayer. Holding from 12 to 15 gallons of liquid, these models have pumps which will discharge up to two gallons of spray material per minute.

But the small home gardeners have not been forgotten, even window box enthusiasts can find equipment scaled to their needs. Manufacturers have made a versatile instrument of the one- to three-quart sprayer. Some have adjustable nozzles which make it possible to use a mist spray on sucking insects or spread a residual coating on vegetation where it may be eaten by chewing insects to their destruction. One new three-quart household sprayer has a cutoff valve which enables the user to get a steady spray by pumping a head of air into the tank and depressing the valve.

Sprayers can do different things. One sprayer will start a fire (a flame sprayer for burning brush), and another will put out the fire (a gardener's aid for quenching grass blazes).

Whatever the use, today's sprayers are designed with careful attention to the effect upon them of the new insecticides and herbicides. Their hoses and gaskets are resistant to oil and chemicals, and their metals are selected for wear. Durable metal containers are also carefully selected.

The widespread use of sprays to kill weeds has brought a new problem to the gardener. If a vestige on the herbicide remains in the sprayer when he switches to an insecticide, he may find himself killing off roses instead of weeds. Careful cleaning, of course, prevents the danger, but the United States Department of Agriculture, aware that all of us are not model housewives, recommends the use of two sprayers, one to be kept exclusively for herbicides and plainly labeled. Taking note of this need, one manufacturer has brought out a simpler type of compression sprayer which sells for half the price of his more elaborate model of the same type. The less expensive model has interchangeable discs for fine, coarse or fan spray and is intended to serve many of the purposes of the more costly model.

Another popular-priced model suited to the home gardener's needs is a knapsack-type slide sprayer. The horizontal cylinder rests against the small of the operator's back.

Dusters, like sprayers, have been improved. Simple as the dusting procedure has always been, manufacturers have found ways to make it even easier. Changes in dusters may not be visible to the user, for they are of the built-in variety, but the operator enjoys their effects. Better lubrication for the plunger lessens the effort needed to operate it. Better agitation in the dust chamber improves the discharge. Filling is made easier by such improvements as the hand lug on the filler cap of one make and the built-in scoop of another. A new plunger type has an adjustable nozzle for under-leaf work, where insects like to hide.

Making its debut this year is a duster that can be operated with one hand. A spring inside the bellows is set in motion by a gentle up-and-down wrist movement. This duster is a British patent, but is manufactured by an old American company.

Although dusting is a simple process, there are a variety of dusters designed to meet specific uses. Plunger dusters apply small quantities of pest control dust accurately and without waste. The garden-sized duster protects home plantings. For larger gardening—truck crops and the like—crank dusters have been developed. These are carried in front of the operator by means of shoulder straps. High speed gears inside the duster are powered by a hand crank which operates the fan. The fan draws dust from a chamber into a discharge tubing. Another type is the knapsack duster, designed for carrying on the back and operated by bellows. This duster is intermittent in action and is used where spot application is needed. Then there are dusters for large-scale operation—wheelbarrow and crank dusters, and big power dusters for field crops. All are on the market in improved forms this year.

Progress in spraying and dusting is striking when you consider that these essentials to agriculture are of relatively recent origin. The first hand sprayers date from the Civil War period when western potato farmers were faced with ruin by the Colorado beetle. Finding that Paris green would destroy the pests, practical inventors of that period made hand sprayers to protect their potato crops. Now the making of spraying and dusting equipment is an industry doing a business of about $80,000,000 a year. That's a big figure, but when you note that the Department of Agriculture lists yearly damage from insects, weeds and plant disease at $11,500,000,000, it seems rather small. In any case, it's now within the power of home gardeners to win their war on plant pests.▶

GARDENERS' GUIDE

Flower Grower 1953 Directory of Garden Chemicals, Sprayers and Dusters

Compiled by HARRIET K. MORSE

SPRAYERS

Hand Type

ALL PURPOSE. Pint or quart capacity. All directional nozzle to eliminate necessity of tipping sprayer. The E. C. Brown Co., Canandaigua, N. Y.

B & G Co. 100-S. Capacity 1 gal. Stainless steel, light weight, portability. B & G Co., Philadelphia 20, Pa.

BLACKWELL. Capacity 3 gal. #250 NO-DRIP-SPRAY GUN. Blackwell Burner Co., 5033 W. Commerce St., San Antonio 7, Texas.

BLIZZARD CONTINUOUS. Capacity 39 oz. Solid copper tank, highly polished. Twin nozzle for angle or straight fine fog or stream spraying. D. B. Smith & Co. Inc., 414 Main St., Utica, N. Y.

CENTROSPRAYS. Capacity 8 oz. and 12 oz. Central Rubber Products, 821 Broadway, N. Y.

CHAPIN. Capacity 5 oz. to 5 gal. Intermittent, continuous, compressed air and co-powered. In tin, galvanized, copper and herculoy. R. E. Chapin Mfg. Works, Inc., Batavia, N. Y.

DOBBINS. Capacity 2 to 4 gal. Self lubricating plunger (patented). Dobbins Mfg. Co., 702 W. Beardsley Ave., Elkhart, Ind.

EXCELLO. Capacity 1 qt. Stainless steel. Root-Lowell Corp., 445 N. Lake Shore Drive, Chicago, Ill.

G S SPRAYER. Capacity 4, 8, 14 oz. New heavy duty, quick acting rubber bulb. General Scientific Equipment Co., 27th & Huntingdon Sts., Philadelphia 32, Pa.

HAND GUN. Telescope type, reaches out 6 ft. Insecticide adapters concentrate spray on plants. Tryco Mfg. Co. Inc., 1600 N. Calhoun St., Decatur, Ill. (Midwest & South dist.).

HUDSON SPRAYERS. Eleven models with capacities from ½ pt. to 2⅔ qt. H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago, Ill.

IDICO SPRAYER. Capacity 14 oz. and 32 oz. One hand operated sprayer nozzle interchangeable to give a fine fog mist or strong spray. Idico Products Co., 1 W. 125th St., N. Y.

JAKE. Pint and quart capacities. Continuous type equipped with both direct and universal spray nozzles. Jaeckh Mfg. Co., 3444 Colerain Ave., Cincinnati 23, Ohio.

KEN-SPRAYALL. Adjustable swivel nozzle to vary spray from full stream to fog mist. Sprayers & Nozzles, Inc., 2575-28th Ave., North, St. Petersburg, Florida.

KILLER KANE. A 2,4-D applicator. Kane made of durable corrosion resistant plastic and brass. Donaldson Co., Inc., 666 Pelham Blvd., St. Paul, Minn.

LOFSTRAND. 1 gal. capacity. Lightweight, easy to handle. The Lofstrand Co., 2000 Southlawn Lane, Rockville, Md.

OLD FAITHFUL. Geyser-type sprayer with twin nozzle. Continuous spray. Stern's Nurseries, Geneva, N. Y.

ORTHO-SPRAY-ETTE. 8 oz. bottle makes 1½ Gal. diluted spray; ORTHO LAWN SPRAYER, 1 pt. bottle makes 15 gal. diluted spray. Attach to garden hose, they mix correct proportions with water, automatically. California Spray-Chemical Corp., Lucas and Ortho Way, Richmond, Calif.

PARAGON. Capacity 5 to 20 gal. The Campbell-Hausfeld Co., Harrison, Ohio.

PESTOP. Capacity 1¾; 2¼; 3; 3½ gal. Easy to use rugged and field tested; large funnel or open top. Malleable D. handle. Adjustable brass nozzle, brass curved extension, oil resistant hose. Available also, PESTOP with 1 pt. to 2 qt. capacity. Continuous and intermittent tin sprayers sturdily constructed. Brass nozzle & brass siphon tube, recessed nozzle, seams locked & soldered. The F. E. Myers & Bro. Co., 704 S. Orange St., Ashland, Ohio.

SEARS ROEBUCK HAND SPRAYER. Capacity 1 qt. Sears Roebuck Co., 925 So. Homan Ave., Chicago, Ill.

SURE SHOT. Capacity 1 qt. Small, compact, holds up to 300 lb. pressure. Rose Exterminator Co., 1809 W. North Ave., Chicago, Ill.

UNIVERSAL. Capacity 5 oz. to 3 qt. Both atomizer and continuous sprayers. Universal Metal Products Co., Saranac, Michigan.

Knapsack Type

BROWN'S KNAPSACK. 1¾ gal., 3½ gal., 4 gal. capacity. All Brown tank sprayers are hot-dipped galvanized after fabrication. The E. C. Brown Co., Canandaigua, N. Y.

BUG-O-GUN. Capacity 1½ to 4 gal. Other models: JET, AERIAL, SPRAY KING. Electric weld tanks, forged shut-off valves. Universal Metal Products Co., Saranac, Mich.

CHAMPION. *Models 1,2,3:* 4½ Gal. capacity. Piston-type, long life, serviceable, economical, powerful. Champion Sprayer Co., 6509 Heintz Ave., Detroit 11, Mich.

CHAPIN. Capacity 4-5 gal. *Model 650* is new cylindrical knapsack. R. E. Chapin Mfg. Works Inc., Batavia, N. Y.

CROSS COUNTRY. Open top sprayer. Discharges 9 gal. per hour. Synthetic 30 in. hose; gaskets withstand any emulsion. Automatic shut off; brass extension and nozzle; carrying strap. Sears Roebuck Co., 925 So. Homan Ave., Chicago, Ill.

DOBBINS. 4 gal. capacity. Operate with right or left hand. Dobbins Mfg. Co., 702 W. Beardsley Ave., Elkhart, Ind.

E-Z KNAPSACK. Capacity 5 gal. Solid copper or Armco zinc-grip steel tank. D. B. Smith & Co., Inc., 414 Main St., Utica, N. Y.

HUDSON SPRAYERS. Three models: DUMORE, 4½ gal., SPRAZIT, 5½ gal., OZARK, 5 gal. H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago 11, Ill.

JAKE JUSTRITE. 2 gal. capacity. Welded tank all brass fittings. Jaeckh Mfg. Co., 3444 Colerain Ave., Cincinnati, Ohio.

KEN-SPRAYALL. Capacity 2½ and 4 gal. Adjustable swivel to vary spray from full stream to fog mist. Sprayers & Nozzles, Inc., 2575-28th Ave., North, St. Petersburg, Florida.

LOFSTRAND. Capacity 2 gal. and 3 gal. Corrosion resistant, constructed of stainless steel and machined brass parts. The Lofstrand Co., 2000 Southlawn Lane, Rockville, Md.

NEW IDEA. Capacity 4 gal. Galvanized or brass tank. All brass pump, brass ball valves; patented jet agitator, easy to operate, side lever operation. The F. E. Myers & Bro., Co., 704 S. Orange St., Ashland, Ohio.

SEARS ROEBUCK KNAPSACK SPRAY. All brass, 30 ft., fine or solid spray. Sears Roebuck Co., 925 So. Homan Ave., Chicago, Ill.

SPRAYMORE. Capacity 5½ and 4½ gal. Piston or diaphragm pumps, comfort-back. Root-Lowell Corp., 445 N. Lake Shore Drive, Chicago, Ill.

Power Sprayers

COOLEY-MIST CONCENTRATE SPRAYERS. (Potts-Spencer Model), Tank 3 gal. capacity. *Portable wheelbarrow model* driven by 2 HP gas. engine; *Wheel model* and skid type for mounting on truck, tractor, jeep, etc. Equipped with 2 HP gas. engine. Cooley Spray Equipment Works, Somers, Conn.

DOBBINS. Capacity 18 to 250 gal. Dobbins Mfg. Co., 702 W. Beardsley Ave., Elkhart, Ind.

FIELD FORCE. 8.35 gpm. pump. 50 to 600 gal. Cyprus tanks. Engine or power take-off powered. Field Force Mfg. Co. Inc., Phoenixville, Pa.

FRIEND. Capacity 50 to 100 gal. Perfect balance features OX Pump with ½ to ⅓ moving parts. All roller bearings. Friend Mfg. Co., Gasport, N. Y.

GENERAL PURPOSE. Capacity 7 g p m, 400 psi; 100 to 200 gal. tank; bulldozer self-oiling pump. Double gear construction; trailer or skid models; engine or pro drive; positive agitation. The F. E. Myers & Bro. Co., 704 S. Orange St., Ashland, Ohio.

HUDSON SPRAYERS. Five models with capacities from 15 to 150 gal. H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago, Ill.

INSECT-AWAY INSECTICIDE SPRAYER. Electric, capacity 24 oz. H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago, Ill.

JOHN BEAN POWER SPRAYERS: SPRAYMATE. 5 gal. capacity. Produces 2 gpm at 200 lb. pressure. Handles all types of spray materials. Accessories for weed spraying, root feeding; SPARTAN, 15 gal. tank. Produces 3 gpm at 300 lb. pressure. Handles all types of spray material. Accessories for shade tree spraying available, also root feeding and weed spraying. John Bean Div., Food Machinery & Chemical Corp., Lansing, Michigan.

KROMER. Kromer finish X; Kromer nozzles. O. W. Kromer Co., 1120 Emerson Ave., N. Minneapolis, Minn.

LOWELL HI-POWER. Capacity 15, 30, 50, 100, 150 gal. Wheel mounted or skid-multipurpose. Root-Lowell Corp., 445 N. Lake Shore Drive, Chicago, Ill.

MASTER MISTER. *Model 500:* Capacity 10 gal. Easily portable, designed especially for amateur gardeners. Weller Mfg. Co., Dover Rd. at W. Oviatt, Bay Village, Ohio.

PARAGON. Capacity 20 to 55 gal. The Campbell-Hausfeld Co., Harrison, Ohio.

ROTO-ZEPHYR. Capacity 5 gal. Avail. as attachment to Roto-Hoe tractor or complete unit. Roto-Hoe & Sprayer Co., Newburg, Ohio.

SILVER CLOUD. Capacity 13 to 50 g p m. Myers self-oiling bulldozer pump; 200 to 500 gal. tanks; orchard or field crop models; engine or pro drive; skid or trailer type rotary agitator. Also Myers with 12½ gal. capacity with cog gear handle; positive agitation; one wheel; portable. The F. E. Myers & Bro. Co., 704 S. Orange St., Ashland, Ohio.

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John **BEAN**
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Now you can fight the foes of outdoor living, beautify your home and grounds with a minimum of trouble and tiring effort. John Bean, manufacturers of high-pressure sprayers for almost 70 years, offers you the *first consumer-priced power sprayer* on the market.

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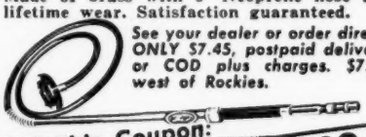
The original **SLIDE-SPRAYER**

Spray your flowers, fruits, animals the fast, easy, sure way with Airosprayer, the all-purpose sprayer that allows you to cover low areas without stooping and to reach up to 35' without climbing. Airosprayer's double action gives a continual, adjustable spray direct from the container of spray solution. Made of brass with 5' Neoprene hose for lifetime wear. Satisfaction guaranteed.



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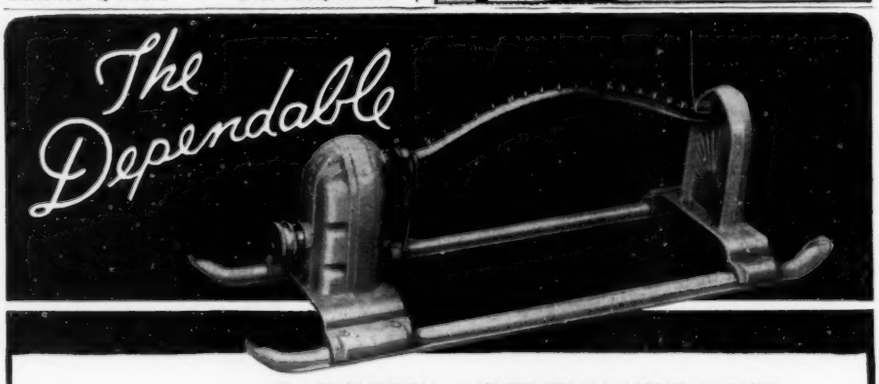
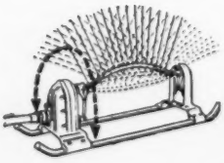


LAWN SPRINKLER

You can be assured of the performance of your Avon oscillating type Lawn Sprinkler. It gives you thorough lawn irrigation, 1500 square feet or more, without pooling or runoff, simulating a perfect, natural rainfall.

Its beautiful streamlined design plus exclusive engineering features and precision workmanship guarantee years of satisfactory service.

So . . . for lawn beauty, year after year . . . demand Avon, the sprinkler de luxe. The sprinkler that with one simple adjustment caters to your every need for watering large or small lawn and garden areas. Sold at better Hardware and Garden Supply stores — only $14.95.



AVON *Sprinkler*
THE FAMILIAR LINE OF YELLOW SPRINKLERS

AVON MANUFACTURING CO., WORCESTER 4, MASS.

GARDENERS'

SPRAYERS Continued

SILVER PRINCE. Capacity 2 g p m; 225 psi. Engine or motor drive positive agitation, porcelain lined cylinder, rubber tire, includes hose and gun, 16 in. overall width, portable; SILVER SPRAY, capacity 4 g p m, 300 psi. 50 gal. tank portable skid or 2 wheel models; engine or motor driven. The F. E. Myers & Bro. Co., 704 S. Orange St., Ashland, Ohio.

SPRAYIT. Capacity 8 gal. Air compressor, tank sprayer for attachment to garden tractor. For insecticide spraying and general air service. New. Electric Sprayit Co., Sheboygan, Wis.

TRACTOR POWER TAKE OFF. M A W G. Macks Anti Weed Gun, 1424 Chicago St., Caldwell, Idaho.

TRYCO CROP SPRAYER. Capacity 2½ to 50 gal. per acre. Tractor mounted. P.T.O. driven pump; all aluminum boom. "Suck-back" system prevents nozzle dripping; front or rear boom mount. Tryco Mfg. Co., Inc., 1600 N. Calhoun St., Decatur, Ill. Regional distribution. Midwest & South.

WIZARD LEKTRIK-SPRAY. Insecticide sprayer; capacity 24 oz. Also RIVAL LEKTRIK-SPRAY, 2 qt. H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago, Ill.

Bucket Type

AIROSPRAYER. Capacity according to size of bucket used. Heavy gauge brass, adjustable spray, non-clogging nozzle, acid resistant hose, double action pump. Airosprayer Co., Neodesha, Kansas.

CHAMPION. *Model 203:* Powerful, effective, economical. Champion Sprayer Co., 6509 Heintz Ave., Detroit 11, Mich.

DOBBINS. Several models. Dobbins Mfg. Co., 702 W. Beardsley Ave., Elkhart, Ind.

HUDSON SPRAYERS. Four models: KING, MORO, MODOC, TROMBONE. H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago, Ill.

JAKE LEADER. All brass construction with the exception of hose, foot rest and handle. Jaeckh Mfg. Co., 3444 Colerain Ave., Cincinnati, Ohio.

KEN-SPRAYALL. Adjustable swivel nozzle to vary spray from full stream to fog mist. Sprayers & Nozzles Inc., 2575-28th Ave., North, St. Petersburg, Florida.

LITTLE GIANT. All brass pump, pumping done on downward stroke, brass ball valves. Also PEERLESS, double acting with brass working parts; COG GEAR LEVER has 1½ in. diameter brass cylinder; cog gear handle. The F. E. Myers & Bro. Co., 704 S. Orange St., Ashland, Ohio.

SEARS ROEBUCK BUCKET PUMP. Sprays solid stream, fine or coarse. Sears Roebuck Co., 925 S. Homan Ave., Chicago, Ill.

SCOUT. 150 lb. pressure. Root-Lowell Corp., 445 N. Lake Shore Drive, Chicago, Ill.

SIREN PUMP. Heavy brass; 5 ft. hose; nozzle pressure 300 lb. The E. C. Brown Co., Canandaigua, N. Y.

SMITH GIANT. All brass, develops high pressure, easy working, long lived. D. B. Smith & Co., Inc., 414 Main St., Utica, N. Y.

Siphon Type

ARNOLD GARDEN HOSE SPRAYER. Attaches to garden hose in place of regular nozzle. Has transparent cartridge chamber and an angle extension. Garden Hose Spray Co. Inc., Cambridge 40, Mass.

BIG-GUN. Sprays liquid or powder. Small neck half pint bottle holds enough solution to make 1½ gal. of spray. Concentrated material from jar is mixed with water stream by placing finger over hole at side of sprayer head. Bradson Co., 10903 Chandler Blvd., North Hollywood, Calif.

GUIDE

GARD-N-GUN. Half pint jar holds enough solution to make 1½ gal. mixed spray. Positive water control valve, set on or off with thumb. Bradson Co., 10903 Chandler Blvd., North Hollywood, Calif.

GRO-GUN. Sprays fertilizers and plant foods, both liquid or powder. Pint jar holds enough to make 15 gal. of spray. One finger control. Bradson Co., 10903 Chandler Blvd., North Hollywood, Calif.

HAYES SPRAY GUNS. Capacities, 4 gal., 6 gal., 10 gal. Also HAYS FERTL FEED; HAYES FERTL RAIN; HAYES 1-10 PROPORTIONER. Light easily cleaned, proportion accurately, sturdy. Ray Sanders & Co., 220 Security Blvd., Pasadena, Calif.

HOZON. Gives full suction with a flowing pressure as low as 25 lb. The Hozon Co., Box 703, Cleveland 22, Ohio.

INSECT-O-GUN. 3 gal. capacity with pint mason jar furnished with gun. Pistol grip for easy holding, positive water control knob, clog-free operation. Bradson Co., 10903 Chandler Blvd., North Hollywood, Calif.

SIPHON SPRAYER. Fertilizer sprayer and flow-mixer. New this season, special design prevents injection of high water pressure to break glass jar. R. E. Chapin Mfg. Works Inc., Batavia, N. Y.

SPEEDEX GARDEN & TREE. All brass with adjustable nozzle; 5 ft. oil-proof hose. D. B. Smith & Co., Inc., 414 Main St., Utica, N. Y.

SPRAY-MIX. Dispenser for insecticide. Attached to garden hose. Melnor Metal Prod. Co., 10-40 45th Ave., Long Island City, N. Y.

Wheel Type

BARON & MONARCH. Capacity 15 gal. Mobility, high pressure, sturdiness. Root-Lowell Corp., 445 N. Lake Shore Drive, Chicago, Ill.

CHAMPION PISTONTYPE. *Model 500:* Capacity 15 gal. Galvanized or copper. Champion Sprayer Co., 6509 Heintz Ave., Detroit 11, Mich.

CHAMPION AUTO-LOAD. Capacity 3½ gal. Wheelbarrow type auxiliary 15 gal. New revolutionary feature that pressurizes liquid as tank is loaded from storage container. In four mounting styles: wheelbarrow, caddy cart, knapsack and floor type. Champion Sprayer Co., 6509 Heintz Ave., Detroit 11, Mich.

CHAPIN. Capacity 12 gal. Wheelbarrow sprayer furnished with or without pressure tank; steel or rubber tired wheel. Also a 4 gal. cart sprayer. R. E. Chapin Mfg. Works Inc., Batavia, N. Y.

DOBBINS. Capacity 12 to 18 gal. Dobbins Mfg. Co., 702 W. Beardsley Ave., Elkhart, Ind.

MACKS ANTI-WEED GUN. 1424 Chicago St., Caldwell, Idaho.

PARAGON. Capacity 12 to 20 gal. The Campbell-Hausfeld Co., Harrison, Ohio.

SMITH WHEELBARROW. Capacity 18 gal. Rubber tired wheel or steel wheel. High pressure tank (or without it). Armco zinc-grip steel tank. D. B. Smith & Co., Inc., 414 Main St., Utica, N. Y.

Compressed Air Type

BEAN BEETLE EXTENSION. Attachable to the regular quart capacity compressed continuous air sprayers. Jaeckh Mfg. Co., 3444 Colerain Ave., Cincinnati, Ohio.

COMPRESSED AIR TYPE SPRAYERS. Eight models with capacities from 1¾ gal. to 4 gal. H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago 11, Ill.

NEW . . . FAST-ACTING

DU PONT SOLUBLE PLANT FOOD

Feed plants through leaves or roots... ideal for gardens, lawns and house plants

Your plants will "get up and grow" when you use this new balanced plant food. It dissolves readily in water, just spray or sprinkle it on. May be added to pest-control sprays, used as a transplanting solution, etc. High in nitrogen, phosphorus, potash . . . 19-22-16 analysis, yet no problem from burning when used as directed. Use it any time, any place plants need a boost.

Comes in three sizes: 6-oz. can, 1½-lb. can and 4-lb. bag. (Not offered for sale in South Carolina.)

IDEAL WAY TO STOP BUGS and BLIGHTS

on Roses and other flowers

use Du Pont FLORAL DUST

All you need all season long to prevent insect and blight damage to your flowers. Du Pont Floral Dust won't harm tender plants or blooms. Use it as dust or spray. Comes in handy 8-oz. dust gun, 1-lb. can, 3-lb. bag.

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VEGETABLE GARDEN DUST

You can't find a better combination to stop bugs *and* blights! Use Du Pont Vegetable Garden Dust as a dust or spray. Ideal for all vegetables, safe to use any time. In 8-oz. dust gun and 1-lb. can, 3-lb. bag.

Get these proven Du Pont chemicals from your garden dealer . . . for *better* results. Ask him also for other dependable Du Pont garden products to fit every need. Du Pont Garden Products Section, Wilmington, Delaware.

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On all chemicals always follow directions for application. Where warning or caution statements on use of the product are given, read them carefully.

Oscillating Sprinkling is **Better than Rain**

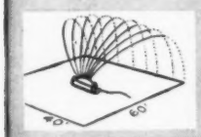
Develops more luxurious lawns and gardens with half the work!

Relax! with Melnor's

swingin' spray

oscillating rectangular area sprinkler

ORDINARY SPRINKLER
- waters lawn un-uniformly
- spotty small area coverage
- leaves lawn corners dry
- overlap causes flooding
- wets sidewalk and passersby



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- adjustable for small areas

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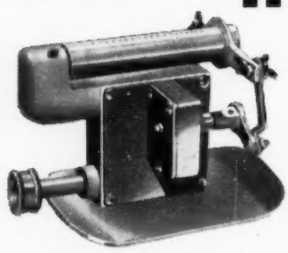
Dpt. F-2, • 10-40 45th Ave., Long Island City 1, N. Y.

WE'VE IMPROVED ON NATURE!

● The new Evergreen Sprinkler for '53—easiest, most dependable wave-type sprinkler you've ever used—works more evenly, gently than rain! Its coverage is up to 2000 square feet at average city pressure. Water falls in an even rectangular pattern, soaking deeply into the subsoil. And a simple thumb screw adjusts spray to any arc, permitting you to sprinkle close to the house without dampening walls!

● **Wide ski-runner base** makes it possible to pull Evergreen Sprinkler over even newly seeded lawns without damage. Light in weight—easy to store. (8½" long by 5" wide at base by 5" high.)

NOW ONLY— $11.95



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BELMONT, MICHIGAN

GARDENERS' GUIDE

SPRAYERS Continued

RITESIZE. 2 gal. deluxe compressed air sprayer. Has 5 ft. of hose and adj. nozzle for spraying trees, roses, garden vegetables, weed killers etc. Very light, easy to handle. Can be set on the ground and operated with extra long hose. D. B. Smith & Co., Inc., 414 Main St., Utica, N. Y.

DUSTERS

Hand Type

CHAMPION. *Model 103:* Capacity to 8 lb. Economical, powerful, easy to fill and clean, bellows type, long life serviceability. Champion Sprayer Co., 6509 Heintz Ave., Detroit, Mich.

CHAPIN & FLIKA-DUSTA. Capacity 3 to 24 oz. Exclusive model, hand operated, requires no pumping. R. E. Chapin Mfg. Works Inc., Batavia, N. Y.

CRYSTAL DUSTER. Capacity 32 oz., 41 in. long, straight through exhaust. The E. C. Brown Co., Canandaigua, N. Y.

DOBBINS. Capacity 2 lb. to 20 lb. Dobbins Mfg. Co., 702 W. Beardsley Ave., Elkhart, Ind.

FEENY DUSTERS. Piston type. *Model D:* 2 qt. *Model F:* 1 qt., *Model BX:* 1 pt. extension duster. *Model C:* 1 pt. capacity, *Model N-H:* 10 lb. capacity, abdominal type with hand crank; attachments available. Fenny Mfg. Co., Muncie, Ind.

G S DUSTER. Capacity 4 oz., 8 oz., 14 oz. New, heavy duty, quick acting bulb. General Scientific Equipment Co., 27th and Huntingdon Strs., Philadelphia, Pa.

JAKE HANDY. Capacity 1 lb. Jaeckh Mfg. Co., 3444 Colerain Ave., Cincinnati 23, Ohio.

HUDSON DUSTERS. Four models with capacities from 1 pt. to 1 qt. H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago 11, Ill.

MESSINGER MFG. CO. Capacity 10-12 lb. Rotary type, steel gears, single and double nozzle. Messinger Mfg. Co., Tatamy, Pa.

NIAGARA. Pint, quart and 2 quart dusters. Niagara Chemical Div. Food Machinery Corp., Middleport, N. Y.

ROOT PLUNGER DUSTER. Capacity ½ and 1 lb., 3 way adjustable nozzle. Root-Lowell Corp., 445 N. Lake Shore Drive, Chicago, Ill.

SMITH GIANT CRANK DUSTER. Capacity 7-15 lb. Also several styles hand pint and quart dusters. D. B. Smith & Co., Inc., 414 Main St., Utica, N. Y.

Knapsack Type

CHAMPION. *Model 100:* Capacity to 17 lb. Double-action continuous flow, or can be converted into spot dusting action. Powerful, economical long life. Champion Sprayer Co., 6509 Heintz Ave., Detroit 11, Mich.

CYCLO-JUNIOR. 9 lb. capacity. Easy operation, uniform coverage, well made. Niagara Chemical Div., Food Machinery & Chemical Corp., Middleport, N. Y.

NAP-SAK. Capacity 20 lb. Light weight, easy to carry and operate. Root-Lowell Corp., 445 N. Lake Shore Drive, Chicago, Ill.

Power Dusters

POWER DUSTER. *Model 300* with the dust tank attachment. Dust tank mechanically operated. Capacity 25 lb. of dust. T-spout attachment for model 300 for

DON'T LET ANOTHER SEASON PASS WITHOUT OWNING A

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There's a DOBBINS sprayer that every home owner and gardener should own for dependable weed and pest control. See your local hardware dealer. Ask for insist on a DOBBINS Sprayer and Duster.

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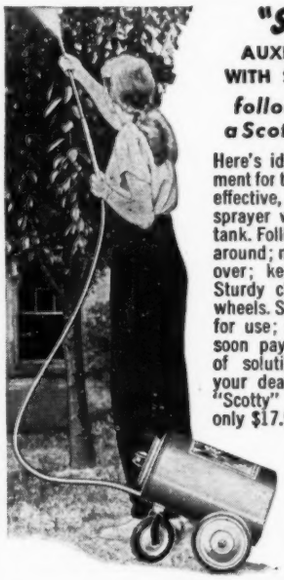

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AUXILIARY TANK WITH SLIDE SPRAYER

follows you like a Scotty on a leash

Here's ideal spraying equipment for the home garden—an effective, easy-to-use slide sprayer with "Scotty" 3-gal. tank. Follows you as you move around; no pail to carry or tip over; keeps solution clean. Sturdy chassis, rubber-tired wheels. Solution always ready for use; cuts spraying time, soon pays for itself in cost of solutions it saves. See your dealer or order direct. "Scotty" with slide sprayer only $17.50 prepaid.

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LET WATER DO THE WORK

attaches to your garden hose and sprays any brand or type of fertilizer or weed killer that is mixed with water to apply—won't clog. Pint jar holds enough to make 15 gallons of proper spray. You can make 30 gallons with quart jar. No mist or side spray. Gro-Gun has no moving parts, home replaceable jar, cleans in 30 seconds.

At your dealer's or order from:
THE BRADSON COMPANY
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$2.95

GARDENERS' GUIDE

spraying or dusting two ways at once. Weller Mfg. Co., Inc., Dover Rd. at West Oviatt, Bay Village, Ohio.

ROTO-POWER CRANK DUSTERS. 8 to 14 lb. capacity. H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago, Ill.

MIST BLOWERS

AQUA-DUSTER. Capacity 150 gal. tank (for liquid) or 200 lb. dust hopper. Axial flow fan of 22,000 c.f.m. (26 in. diameter). Friend Mfg. Co., Gasport, N. Y.

COOLEY-MIST CONCENTRATE SPRAYERS. (Potts-Spencer Model). Capacity 3 gal. concentrate tank. Cooley Spray Equipment Works, Somers, Conn.

DYNA-FOG. Special resonant pulse jet aerosol generator. Capacity 55 gal. Curtis Automotive Devices, Inc. 1000 R St., Bedford, Ind.

MASTER MISTER. *Model 300:* Capacity 5 gal. The only portable sprayer with a high speed fan-operated blower in the low price field. Weller Mfg. Co., Dover Rd. at West Oviatt, Bay Village, Ohio.

MYERS. Capacity 300 gal., 26000 cubic ft. of air per minute. Field crop concentrate; 90 mph velocity; water cooled engine; one side application, 50 ft. swath. Concentrate attachment; orchard or field crop units. Also available with both side application. The F. E. Myers & Bro. Co., 704 S. Orange St., Ashland, Ohio.

OTHER APPLICATION TOOLS

DUST MASK. Also gas masks, goggles, first aid kits, finger guards for use in the process of spraying and dusting. General Scientific Equipment Co., 27th and Huntingdon Strs., Philadelphia 32, Pa.

FLY TRAPS. BIG STINKY; LITTLE STINKY; WEE STINKY fly traps. Capacities from 1 gal. to ½ gal. (with jar). Two smaller sizes come without jar. All come equipped with control fluid or powder. Dioptron Co., P. O. Box 1313, Milwaukee, Wis.

INJECTOR TRACTOR KIT. Attached to almost any type tractor, also built complete on wheels to be pulled by tractors. Macks Anti-Weed Gun, 1424 Chicago St., Caldwell, Idaho.

MACKS ANTI WEED GUN. Capacity 1 to 1½ gal. Injections into soil, 3 to 15 inches. Macks Anti Weed Gun, 1424 Chicago St., Caldwell, Idaho.

PORTA-DUSTER TRACTION DUSTER. Capacity 23 lb. H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago 11, Ill.

WAND TYPE BOOMS. Various nozzles for every need; special shutoffs, other accessories for applications with sprayers. Champion Sprayer Co., 6509 Heintz Ave., Detroit 11, Mich.

INSECTICIDES

ACME ARSENATE OF LEAD. Spray or dust, 98% lead. For control of most chewing and sucking insects damaging fruit trees, shade trees, vines and other foliage. Acme Quality Paints, Inc., 8250 St. Aubin, Detroit, Mich.

ALCOA CRYOLITE. A spray, of Sodium Fluoaluminate, not less than 90%. For control of chewing insects. Aluminum Company of America, Chemical Div., 801 Gulf Bld., Pittsburgh 19, Pa.

ANT DUST. Contains Chlordane for control of ants, chinch bugs, grass hoppers, etc. in lawns. Bonide Chemical Co., Utica, N. Y.

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For Gardening Pleasure, Garden Beauty!

Control pests and weeds—enjoy finer flowers, vegetables

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See how cover locks from inside — higher the pressure, tighter the seal. Easiest, safest-to-use. Super power pump. Perfection®: 4 gal. Climax®: 3 gal.

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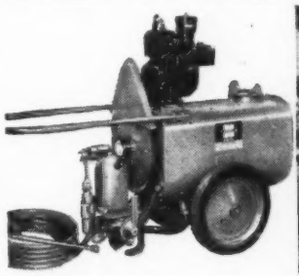
Ladies, you'll love this finest, lightest 1¾ gal. sprayer, so will your man. New Saf-T-Lok* is easier, safer. 5-ft. hose. "6-Shooter"* nozzle for every spray.



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Banish flies, mosquitoes, from lawn, terrace. Blast pests from garden and shrubs, weeds from lawn. Up to 250 lbs. pressure, 4 g.p.m. 15 or 30 gallons.

Imagine...stainless steel

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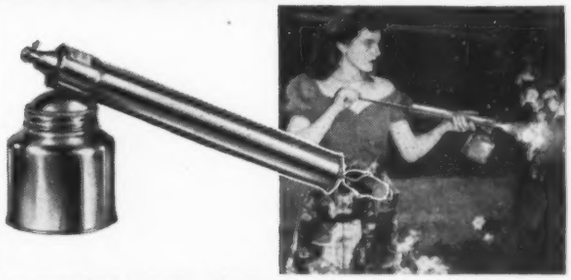
Every metal part stainless steel — lasts longer, costs less than brass, copper sprayers. PLUS 2-Spray nozzle for light or heavy spray at flick of finger.



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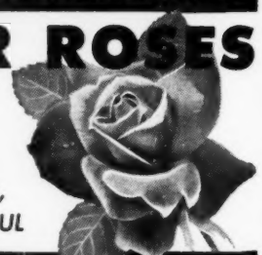
THE SECRET of FINE ROSES

YOUR ROSES TOO

CAN BE BIGGER, FINER, MORE BEAUTIFUL



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You can't expect weak, "defenseless" plants to produce prize-winning Roses! But you can expect new beauty and new satisfaction when you protect and feed them the Tri-Ogen way. And then, you too can join the ever-increasing thousands of gardeners who know the "secret" of getting more pleasure from Roses—*easily* and economically!

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Combination Insecticide, Fungicide, Stimulant—Experts say this is finest spray ever developed. It alone provides all the protection plants need! Kills off both chewing and sucking insects. Controls mildew and black spot. Stimulates luxuriant growth and blooms. "E" trial size kit (10 bushes) only $1.50. Other kits $2.35, $6, $9, $30.

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Combination Root, Foliage and Bloom "Tonic"—Scientifically compounded of both inorganic (quickly assimilable) and organic (long-lasting) ingredients. Contains nitrogen for foliage, phosphorous for root and plant growth, potash for bigger, more-colorful blooms. Plus hormones, vitamin B_1, and the vital trace elements. Highly concentrated. For Roses, flowers, vegetables. In bags: 5-lb., $1; 10-lb., $1.70; 25-lb., $3.20; 100-lb., $9.40.

WIDELY USED AND ENDORSED BY EXPERTS—Tri-Ogen is used in most municipal gardens, where Roses must be at their best. It is used more widely by gardeners than any other group of Rose "Growers." It is endorsed by many authorities, such as C. EUGENE PFISTER, President, American Rose Society, who says: "Tri-Ogen is the sure, easy way to better Roses" . . . DR. CYNTHIA WESTCOTT, Plant Pathologist and Author of Anyone Can Grow Roses, who says "Tri-Ogen is my first choice." Used by professional and amateur gardeners everywhere.

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Enjoy All the Beauty of Your Roses—All Season Long

GARDENERS' GUIDE

INSECTICIDES Continued

ANT X. A dust, with Chlordane. For ants, roaches, lice etc. Nott Mfg. Co., Box 87, Mt. Vernon, N. Y.

ANTROL ANT CONTROLS. Ant traps with Thallium, kills ants safely; ANT SYRUP & FEEDERS contain Arsenic; ANT SPRAY contains Chlordane in water emulsion. To kill ants, roaches, Japanese beetles, grubs, lawn moths and chiggers; PUSH-BUTTON ANT & ROACH BOMB, a spray containing Lindane, Piperonyl Butoxide. Boyle-Midway, Inc., 22 E. 40th St., N. Y.

ANTZIX SYRUP. Contains Thallium Sulphate, honey syrup. For killing sweet-eating ants in homes and gardens. Bonide Chemical Co., Utica 4, N. Y.

ANTI-JAPANESE BEETLE GRUB FORMULA. Contains DDT. Goulard & Olena Inc., Skillman, N. J.

APHIS DUST. Contains Lindane for plant lice control, of roses, flowers, vegetables. Bonide Chemical Co., Utica 4, N. Y.

APHIS DUST OR SPRAY. Contains Lindane. For control of aphids, spittlebugs, Japanese beetles and other insects. Niagara Chemical Division, Middleport, N. Y.

ARAMITE-15W. Contains 2(p.tert-butylphenoxy) isopropyl 2-chloroethyl sulphite. For control of mites. U. S. Rubber Co., Naugatuck Chemical Div., Naugatuck, Conn.

ARAMITE-15W. A spray to kill red spider, other mites on roses, evergreens etc. Science Products Co., 1230 E. 63rd St., Chicago 37, Ill.

ARNOLD SPRAYS FOR CHEWING INSECTS. ROT-O-SPRAY, contains Rotenone; ARNOLD 33% DDT is for many pests especially Jap. beetles; ARNOLD ARSEN-O-SPRAY, contains Arsenate of lead; ARNOLD CRYOLITE SPRAY, contains Sodium Fluoaluminate; ARNOLD ROT-O-SPRAY, contains Rotenone. Garden Hose Spray Co. Inc., 7 Upland Rd., Cambridge, Mass.

ARNOLD SPRAYS FOR SUCKING INSECTS. ARNOLD R-P, contains Pyrethrins, Rotenone, soap; ARNOLD NIC-O-SPRAY, contains Nicotine, added as alkaloid, fish oil soap; ARNOLD PYR-O-SPRAY, contains Pyrethrins and soap. Garden Hose Spray Co. Inc., 7 Upland Rd., Cambridge, Mass.

ARAB-U-DO-IT TERMITE CONTROL. Liquid spray containing Technical Chlordane. Control of termites, mosquitoes, ants, chiggers, Jap. beetle larvae, grub worms, sod web worms, lawn moths, chinch bugs, ticks. Federal Chemical Co., Inc., 2701 Winthrop Ave., Indianapolis, Ind.

ARGUSIDE. A spray containing Permanganate of Potassium. For killing external parasites such as fish lice on goldfish. For use in garden pools and large aquariums. Argucide Co., Div. of Lakeview Aquatic Farms, 5579 Colerain Ave., Cincinnati, Ohio.

ASSOCIATED CHLORDANE 45%. A spray for grub and ant control in turf. Associated Chemists Inc., North Collins, N. Y.

BENZEX. Spray containing Benzene Hexachloride. For plant bugs, aphids, thrips, grasshoppers. Woolfolk Chemical Works, Ltd., Fort Valley, Georgia.

BLACK LEAF. ARSENATE OF LEAD; 40; 45% CHLORDANE SPRAY; 5% CHLORDANE DUST, 50% DDT WETTABLE; GARDEN DUST; 10% LINDANE SPRAY; 50% MALATHON SPRAY; WHITE OIL SPRAY; 1% ROTENONE DUST; SLUG & SNAIL PELLETS; PYRENONE AEROSOL; 11-36 AEROSOL. Tobacco By-Products & Chemical Corp., 401 East Main St., Richmond, Virginia.

Rid your Garden of PESTS & DISEASES the Easy Way!

JUST *Squeeze* THE CAN

The ALL-PURPOSE DUST FOR YOUR FLOWERS & VEGETABLES

Controls over 60 insects and diseases! Micronized and homogenized for effectiveness two times greater! Squeeze Can saves buying duster. Bontox is specially made for the "backyard" gardener . . . no messy mixing! 1-Lb. Squeeze Can only 65¢!

Grow BETTER ROSES WITH THIS ALL-IN-ONE DUST or SPRAY

Assures beautiful insect and disease free plants. A highly concentrated all-in-one dust or spray. Micronized and homogenized for greater efficiency . . . easily dissolves for a spray! Safe, tested, lastest chemical formula. Specially made for the proud rose grower . . . 1-lb. Squeeze Can saves buying duster — makes 27 gallons of spray!

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BONCLOR. For white grubs, Japanese beetle larvae, wireworms, chigger, other soil insects. Bonide Chemical Co., Utica 4, N. Y.

BONIDE CUTWORM DUST. Contains Chlordane, for contact control of all species of cutworms. Bonide Chemical Co., Utica 4, N. Y.

BORERKIL. A fumigant containing Benzene Hexachloride. For control of boring insects in trees, shrubs and flowers. Lethelin Products Co., Inc., 15 Macquesten Parkway, South, Mount Vernon, N. Y. (East of Miss. River distribution).

BOR-TOX. A fumigant containing Lindane. For control of borers in trees. Andrew Wilson Inc., Springfield, N. J.

BUG-GETA PELLETS. Contains Calcium Arsenate, Metaldehyde. Compressed bait kills snails, slugs, also useful against cutworms and strawberry root weevils. California Spray-Chemical Corp., Lucas and Ortho Way, Richmond, Calif.

C C C GARDEN ROTE. Dust with ¾% Rotenone; CCC 25% DDT spray; CCC 50% DDT spray; CCC 5% DDT dust. Carbola Chemical Co. Inc., Natural Bridge, N. Y.

CED-O-FLORA. A spray to control mealy bug, scale and red spider. Ced-O Products, 4914 S. Salina St., Syracuse, N. Y.

CHINCHO. Dust with DDT and Chlordane. For control of chinch bugs. Andrew Wilson Inc., Springfield, N. J.

CHIPMAN SPRAYS & DUSTS. A full line of insecticides for chewing and sucking insects. Chipman Chemical Co., Inc., Bound Brook, N. J.

CLORCOP. Spray or dust containing Chlordane, copper. For leaf miner and hard to control insects. Bonide Chemical Co., Utica, N. Y.

CHLORDANE DUST OR SPRAY. Chlordane. For cutworms, wireworms, ants and other insects. Niagara Chemical Division, Middleport, N. Y.

CHLORDANE 45. A spray with Chlordane. To kill insects in lawns, soils, gardens, the home. Science Products Co., 1230 E. 63rd St., Chicago, Ill.

5% CHLORDANE DUST. Contains Chlordane. For ants, chiggers, chinch bugs, roaches in lawns and in homes. Science Products Co., 1230 E. 63rd St., Chicago, Ill.

CHLORDANE DUST, 6%. For ant, chigger, grub, chinch bug control. Acme Quality Paints Inc., 8250 St. Aubin, Detroit, Mich.

CORN EAR WORM DROPS. A spray to control ear worm in sweet corn. Rose Mfg. Co., Beacon, N. Y.

CROSS COUNTRY SPRAYS OR DUSTS. ANT KILLER with Chlordane; FLY & MOSQUITO KILLER with 50% DDT; NICOTINE SULPHATE SPRAY with 40% Sulphate for aphids etc.; ROTENONE DUST for chewing or sucking insects; DORMANT MISCIBLE OIL SPRAY for fruit trees before buds appear for scale-type insects; LAWN INSECTICIDE with Chlordane for ants, cutworms etc.; EVERGREEN SPRAY for red spider. Sears Roebuck & Co., 925 So. Homan Ave., Chicago, Ill.

CYANOGAS. Ant killer granules. A fumigant containing Calcium cyanide for killing ants in nests. American Cyanamid Co., 30 Rockefeller Plaza, N. Y.

D & P LINDANE-ARAMITE EMULSION. Residual control of aphids, red spider. Doggett-Pfeil Co., Springfield, N. J.

DDIDE. Spray containing DDT, Menthyl Naphthalenes. Area control of mosquitoes, black flies. Bonide Chemical Co., Utica 4, N. Y.

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contains Weedicide miracle lawn weed killer. Won't harm grass.

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Do you want healthier, faster growing house plants—larger, more beautiful blooms—richer, more luxuriant lawns. Use Triple 20 Plant Food. A balanced, concentrated, fast acting plant food designed to give you lovelier African Violets, Roses, Lawns and Gardens. 25c, $1, and larger sizes at your dealers. Or send 25c for trial supply to

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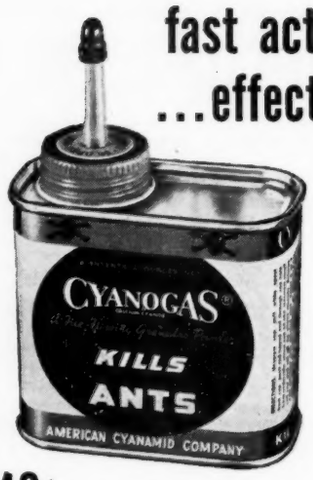

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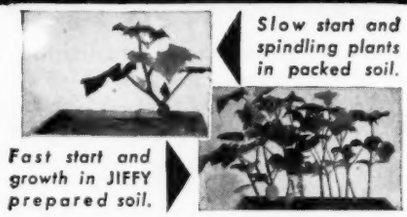

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NEW WONDER SPRAY

for your flowers, shrubs

ACME 5% LINDANE SPRAY

Kills aphids (plant lice) and a host of beetles, slugs and worms as they develop with the season. Plan a consistent spraying program now to keep your flowers and shrubs free from these damaging insects.

Safe on tender foliage. Leaves no unsightly residue. Has strong recommendations of U. S. Dept. of Agriculture. An 80-cent bottle makes 6 gallons of spray.

Ask for it at your garden-supply dealer's.

INSECTICIDE DIVISION • ACME QUALITY PAINTS, INC. • Detroit 11, Michigan

GARDENERS'

INSECTICIDES Continued

DDT 50% SPRAY; DDT 5% DUST. General insecticide. Niagara Chemical Division, Middleport, N. Y.

DED-TOX 50 W. Spray containing 50% DDT, a wettable powder for orchard, garden and lawn insects; DED-TOX WE-25. Spray containing 25% DDT water emulsifiable. For control of insects especially cankerworms. Thompson-Hayward Chem. Co., Kansas City, Mo.

DIMITE. For control of red spider and mites. Acme Quality Paints Inc., 8250 St. Aubin, Detroit, Mich.

DIMITE. A specific control for mites and red spider. Less toxic than DDT. Sherwin Williams Co., P. O. Box 92, Milwaukee Junction, Detroit, Mich. (Dist. E. of Miss. River and N. of Mason-Dixon line).

DORMATOX. Dormant spray oil. Contains superior type 92% U.R. For fruit trees, shrubs, roses against mites, aphids, scale insects. Bonide Chemical Co., Utica 4, N. Y.

DU PONT DORMANT SPRAY OIL. Contains petroleum oils 96%. Pre-foliage spray for scale control on ornamentals, fruit and shade trees. Du Pont, Wilmington, Del.

DURA DUST #50. Spray or dust containing 50% wettable DDT. Controls many insects, caterpillars, beetles, grubs on farm or in garden. Acme Quality Paints, Inc., 8250 St. Aubin, Detroit, Mich.

D-X INSECT SPRAY. Contains Rotenone, Pyrethrum, Cyclonene. Insects on flowers, vegetables and fruits; D-X AERO-SPRAY. Kills insects on house plants. B. G. Pratt Co., Hackensack, N. J.

END-O-PEST ARC. Spray containing Chlordane 45%. To control ants, roaches, chiggers, cutworms. Swift & Co., Plant Food Div., Union Stock Yards, Chicago, Ill.

EVER GREEN. Spray, containing pyrethrins. General purpose, non-poisonous home garden insecticide. McLaughlin Gormley King Co., 1715 Fifth St., Minneapolis 14, Minn.

FATSCO. Liquid containing Sodium Arsenate. Kills ants in garden or home. Fatsco, 251 N. Fair Ave., Benton Harbor, Mich.

F&B LIME SULPHUR SOLUTION. A spray containing Calcium Plysulfides 30%. Dormant spray to control San Jose Scale etc.; summer spray to control apple and pear scab; DORMANT SPRAY. Contains 96% highly paraffinic superior oil. Controls scale and certain other insect eggs on fruit trees, shade trees, ornamentals and evergreens. Faesy & Besthoff, Inc., 325 Spring Street, N. Y. (All states east of Miss. River, also Minn., Iowa, Mo., Ark., La.)

F&B TOBACCO DUST. Contains 1% Nicotine and kills chinch bugs, grubs in ground and around roots; CHLORDANE 5% DUST. Controls beetle grubs, ants, chinch bugs, chiggers, leaf miners, wire worm etc. Faesy & Besthoff, Inc., 325 Spring St., N. Y. (All states east of Miss. River, also Minn., Iowa, Mo., Ark., La.).

F&B TERMITKIL. Unadulterated ground penetrant to control termites, flying ants and other similar insects. Faesy & Besthoff Inc., 325 Spring St., N. Y. (All states east of Miss. River, also Minn., Iowa, Mo., Ark., La.).

FLICK. Contains liquid Rotenone. For killing ticks, fleas and lice on dogs. Garden Products Co., 3246 S. Grand Blvd., St. Louis, Mo.

G-SPRAY. Two formulas: nicotine and rotenone. Benson-Maclean, Bridgeton, Ind.

GARDEN SPRAY. General spray in aerosol form. Krylon, Inc., Philadelphia, Pa.

GATOR ROACH HIVES. Bait in a protective tube. Lead Arsenate to kill roaches, silverfish, waterbugs and crickets. De Soto Chemical Company Inc., Box 306, Arcadia, Florida.

GLADIOLUS SPRAY. Contains DDT, Sulphur, Zineb. Sears Roebuck & Co., 925 So. Homan Ave., Chicago, Ill.

GUIDE

GARDEN GUARD. Spray or dust containing 1.00% Rotenone. Controls Mexican bean beetle, aphid and other insects on vegetables and flowers. Acme Quality Paints, Inc., 8250 St. Aubin, Detroit, Mich.

GRAY'S IRIS BORER ERADICATOR. Spray containing DDT and Nicotine Sulphate. For control of iris borer, aphids, stem borer, leaf rollers, Japanese beetles and red spider. Gray Inc., 7217 Division St., River Forest, Ill.

GO-NEX. Spray or dust with 10% DDT; GO-NEX. Spray with 5% DDT. The former for gardens the latter for household purposes; G&O TERMITINE. For termite control indoors or out; G&O P.D.B. Contains Paradichlor Benzine, for borers; G&O CUTWORM BATE. A paste containing Copper Aceto Arsenite, Sodium Arsenate. Goulard & Olena Inc., Skillman, N. J.

HAMMOND'S DUSTS. Rotenone Dust, is highly toxic and non-poisonous; Chlordane Dust is for control of borer, roaches, ants, horn worm and various beetles. Acts as stomach and contact poison and as fumigant; Dikilz Dust contains DDT and controls insects on vegetable and horticultural crops. Hammond Paint & Chemical Co., Beacon, N. Y.

ISOTOX GARDEN SPRAY & DUST. Contains Lindane. It kills aphids, lawn moths, earwigs, ants, thrips, flies, Jap. beetles, lace bugs, mole crickets, armyworms and many other pests. California Spray-Chemical Corp., Lucas and Ortho Way, Richmond, Calif.

KAPSULATE. Sodium Selenate in capsule form for mites on African violets and house plants. Kelly Agr. Prod., McKeesport, Pa.

JAPELLENT. Contains DDT and Chlordane. Doggett-Pfeil Co., Springfield, N. J.

JAPIDE. Spray containing DDT, Chlordane. For Japanese beetle control. Bonide Chemical Co., Utica 4, N. Y.

JAPONEX. Dust for milky disease spores. A biological control for the grubs of the Japanese beetle. Fairfax Biological Laboratory. Clinton Corners, N. Y.

KALITE. Bug duster package, containing Rotenone. Non-poisonous dust and duster for chewing and sucking garden insects. Agkem Inc., Div. of The Kalo Co., 506 Maine St., Quincy, Ill.

KNOX OUT FARM INSECTICIDE. A spray with 25% Lindane. To kill wide range of flower and vegetable garden pests. Pennsylvania Salt Mfg. Co., 1000 Widener Bldg., Philadelphia 7, Pa.

KNOX OUT GARDEN DUST. 5% DDT. Economical for control of flower & vegetable garden pests susceptible to DDT. Pennsylvania Salt Mfg. Co., 1000 Widener Bldg., Philadelphia, Pa.

LINDANE SPRAY. 5% Lindane. Protects flowers and foliage from sucking and chewing insects such as aphis, caterpillers, many kinds of beetles, flies and mosquitoes. Acme Quality Paints Inc., 8250 St. Aubin, Detroit, Mich.

5% LINDANE SPRAY. Insecticide for floral and nursery plants, some vegetables. Science Products Co., 1230 E. 63rd St., Chicago, Ill.

LINDEX 25W. Spray with 25% Lindane as a wettable powder. For seed treating, soil insect control and control of insects on vegetables and on ornamentals; NOX-MITE spray containing 2 p-ter-butylphenoxy isopropyl, 2-chloroethyl sulfite 15% (Aramite). Mite control on crops and ornamentals. Thompson-Hayward Chem Co., Kansas City, Mo.

LINTOX. Spray with 25% W. Lindane. For animal pests, plant insects, barn spray for flies. Bonide Chemical Co., Utica 4, N. Y.

MAGIKIL JELLY ANT BAIT. In tubes and traps, it contains Thallium Sulphate. For control and elimination of ants. MAGIKIL ANT & ROACH DUSTER. Contains 5% Chlordane. Lethelin Products Co., Inc., 15 Macquesten Parkway, South, Mount Vernon, N. Y. (East of Miss. River distribution).

HANDY DUST-GUN

Sold by better dealers everywhere for only 79 cents, this handy dust-gun supplies all the protection most flowers, fruits and vegetables need against insects and fungus diseases. It works like a pump spewing a cloud of dust that destroys bugs and blights that attack the beauty and yield of your garden. It's filled with eight full ounces of Black Leaf® Garden Dust when you buy it — a mixture of nicotine, pyrethrum and rotenone for control of chewing and sucking insects, plus a concentrated fungicide for control of fungus diseases. Easily refillable, it's the economical way to protect your garden with a combination, multi-purpose dust.

Aphids multiply rapidly and often require more frequent sprayings than other pests. It's a good idea to keep a supply of Black Leaf 40® on hand for control of aphids, leafhoppers, most thrips and other soft-bodied sucking insects. Black Leaf 40 also repels dogs, keeping them away from shrubbery and other plants when used as directed. *1-oz. bottle: 36 cents . . . 5-oz. bottle: $1.05.*

Your best answer to any pest control problem is a reliable dependable Black Leaf product

When you need an insecticide, a fungicide, a weedicide, or a rodenticide, you know you can depend on the Black Leaf brand, the symbol of quality for two generations. Your dealer may not yet have the complete line, illustrated below. But keep asking. He will have a supply soon.

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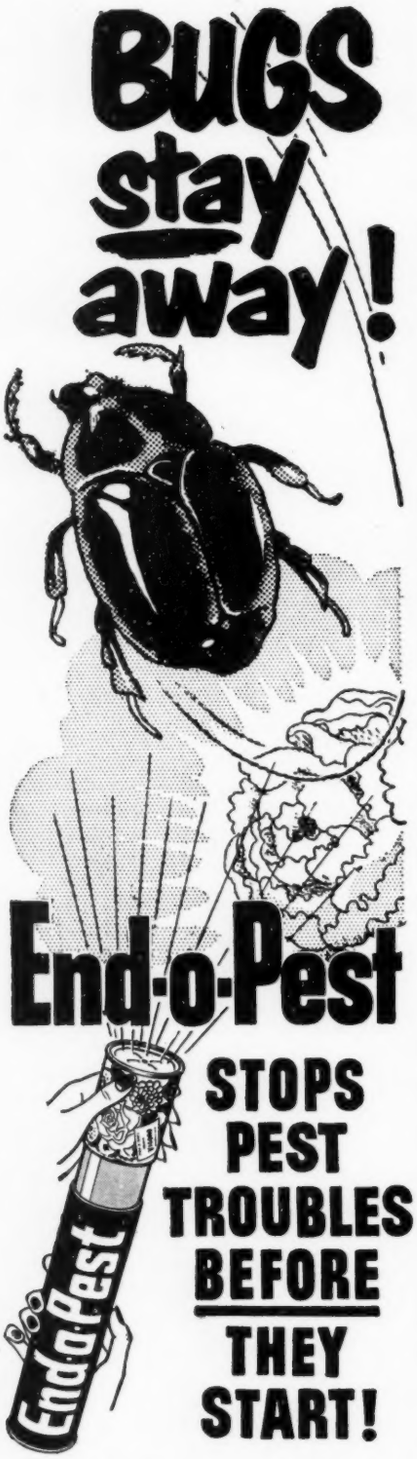

STOPS PEST TROUBLES BEFORE THEY START!

• Chewing insects, sucking insects, fungus diseases—End-o-Pest controls all 3. It's an all-purpose, ready-mixed dust. Just a few strokes of the handy, refillable dust gun container stop pest troubles before they start—or end them if they've already started. Can be used on flowers, shrubs, edible fruits and vegetables, right up to harvest. Also available in economical 2-lb. bags for use in your own dust gun.

End lawn pests, lawn weeds too

End-o-Weed—Kills over 100 kinds of weeds.
End-o-Pest ARC—Kills Ants, Roaches, Chiggers, and many other lawn pests.

GARDENERS' GUIDE

INSECTICIDES Continued

MARVEL SPRAY; MARVEL DUST. Rotenone plus a special spider mite control. Also for mealy bugs. Rose Mfg. Co., Beacon, N. Y.

METHOXYCHLOR 50 WETTABLE POWDER. A spray with 50% Methoxychlor. General insecticide. Niagara Chemical Division, Middleport, N. Y.

MEXIDE. Spray containing Rotenone. For chewing insects on flowers and vegetables. Woolfolk Chemical Works, Ltd., Fort Valley, Georgia.

MILLER HY-TOX INSECT SPRAY. 25% Malathon, 25% Methoxychlor. All purpose home garden insecticide concentrate. Miller Chemical & Fertilizer Corp., 2226 N. Howard St., Baltimore 18, Md.

MILLERS 5% CHLORDANE DUST. For lawns and miscellaneous insects, soil insect control; MILLER ROTENONE DUST, for vegetable insect control. Miller Chemical & Fertilizer Corp., 2226 N. Howard St., Baltimore, Md.

MILLER CORN EARWORM & BORER SPRAY. 7.4% DDT, 74% mineral oil. Miller Chemical & Fertilizer Corp., 2226 N. Howard St., Baltimore 18, Md.

MILLER'S GARDEN SOILDUSTO. DDT, Chlordane, Lindane. For controlling soil insects in and on top of the soil. Miller Products Co., Ft. of S. W. Caruthers, Portland 1, Oregon. (Reg. dist. in Oregon, Wash., Idaho, Utah, Western Montana and Northern Calif.).

MILLER LIME SULPHUR SOLUTION. Spray. An insect and disease control in dormant period on fruit. Miller Chemical & Fertilizer Corp., 2226 N. Howard St., Baltimore 18, Md.

MILLER'S LIQUID LIME SULPHUR WITH SPREADER. Spray containing Calcium Polysulphides. Year around essential plant protection. Miller Products Co., Ft. of S. W. Caruthers, Portland 1, Oregon. (Reg. dist. in Oregon, Wash., Idaho, Utah, Western Montana and Northern Calif.).

NEMEX-20,40,84%. Fumigant, containing Ethylene Dibromide. Kills nematodes and soil insects in plant bed and field. Larvacide Products Inc., 117 Liberty St., N. Y.

NEUDUST. Spray or dust containing 5% DDT. To control gladiolus thrips on plants, bulb storage. Bonide Chemical Co., Utica 4, N. Y.

OIL EMULSION. Spray for dormant scale control on fruits and ornamentals. Woolfolk Chemical Works, Ltd., Fort Valley, Georgia.

ORCHARD BRAND LEAD ARSENATE. Spray or dust containing 97% L.A. Insect control for fruit, vegetables, ornamentals, grub control; GENITOX S-50 Spray containing 50% DDT. General Chemical Div. Allied Chemical & Dye Corp., 40 Rector St., N. Y.

ORTHO CHIGGER & TICK POWDER. Contains Lindane. (Not available on West Coast). California Spray-Chemical Corp., Lucas & Ortho Way, Richmond, Calif.

ORTHO-KLOR "44" SPRAY. Contains Chlordane and odorless kerosene. Kills ants, earwigs, moths, cutworms and many other pests. In dust form without kerosene, same uses. California Spray-Chemical Corp., Lucas & Ortho Way, Richmond, Calif.

PELLENT SPRAY. Contains Phenyl Cyclohexanol and Cyclohexyl cyclohexanol. For windows, screens, sun porches etc. to repel biting insects. Andy Lotshaw Co., 1474 W. Hubbard St., Chicago, Ill.

PESTMASTER. Soil fumigant; methyl Bromide. Weeds, seed and insect control in seed and plant beds. Michigan Chemical Corp., St. Louis, Mich.

PESTMASTER. 50% wettable DDT. Spray for insect control on ornamentals, row crops etc. Michigan Chemical Corp., St. Louis, Mich.

for the gentleman gardener

NEW REMOTE CONTROL

LAWN Sprinkler

a slight tug on water hose regulates spray... turns on or off

Now! Here is sprinkler control from any point along the water hose . . . regardless of distance. Pick up water hose . . . give a slight tug . . . and the CRYSTAL MIST *valve-in-axle* regulates spray from a 5 foot circle to 45 feet—or turns completely on or off. Easy as pulling a light cord.

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No more walking between water tap and sprinkler to adjust spray. Now! Regulate sprinkling from a distance.

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Amazingly simple! Wheels turn when sprinkler is pulled, and *valve-in-axle* regulates water to on or off . . . or to desired spray setting.

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GARDENERS' GUIDE

PESTMASTER. Contains Methyl Bromide 98%, Chloropicrin 2%. Kills soil borne insects, weed seeds, certain soil diseases; BROMEX. Fumigant containing 26% Menthyl Bromide, same uses as above. Larvacide Products, Inc., 117 Liberty St., N. Y.

PESTROY. A spray with 25% DDT concentrate. Insect control on vegetables and flowers, also for flies and mosquitoes. Acme Quality Paints, Inc., 8250 St. Aubin, Detroit, Mich.

PLANTGARD GARDEN DUST OR SPRAY. Contains Rotenone, Pyrethrum, for general garden insects. Garden Products Co., 3246 S. Grand Blvd., St. Louis, Mo.

PROTEXALL. Combination insecticide and fungicide. Contains DDT, rotenone, ferric dimethyl carbamate and sulphur. Stern's Nurseries, Inc., Geneva, N. Y.

PUSH-BUTTON ROSE SPRAY FLOWER BOMB. Contains Lindane and Rotenone. Kills Japanese beetles, aphids, leaf hoppers, thrips and other insects. Boyle-Midway, Inc., 22 E. 40th St., N. Y.

Q.B. DUST. Spray or dust containing Rotenone, 1.00%. For Mexican bean beetle, cabbage worms, etc. Bonide Chemical Co., Utica 4, N. Y.

RED ARROW GARDEN SPRAY. Contains Pyrethrins, Piperonyl cyclonene, Rotenone. For control of garden insects; RED ARROW DUST. ¾% Rotenone. McCormick & Co., Baltimore 2, Md.

ROTECIDE DUSTS & SPRAYS. ROTENONE (dust or spray) kills red spider, mite, aphids, thrips and many other; 5% DDT (dust) kills Japanese beetles, corn earworm and others. Also avail., 1.2% Lindane (dust); and 6% Chlordane (dust) for soil insects. Rotenone Products Co., 110 Eaton Place, East Orange, N. J. (Dist. Chicago & East).

ROTENONE BEARING DUST OR SPRAY. Garden insecticide. Niagara Chemical Division, Middleport, N. Y.

SABANE DUST. Contains Sabadilla. For squash bug, harlequin bug, chinch bug etc. Woolfolk Chemical Works, Ltd., Fort Valley, Georgia.

SCALECIDE. Spray with 97% refined oil. Dormant spray for insects. B. G. Pratt Co., Hackensack, N. J.

SCALE OIL. A spray with petroleum oil. Scale insect control. Niagara Chemical Division, Middleport, N. Y.

SCOTTS LAWN & TURF PEST CONTROL. A dust with 9% Chlordane. Protects lawns from beetle grubs, chinch bugs, web worms. It controls chiggers and ants—dry applied. O. M. Scott & Sons Co., Marysville, Ohio.

SECURITY BRAND. Calcium Arsenate, spray for chewing insects; 5% Chlordane, dust for flowers and vegetables; 40 W Chlordane, spray for flowers, vegetables, soil insects; 50 W DDT, spray for flowers, vegetables, ornamentals, shade trees; Lead Arsenate, spray for chewing insects; Lime Sulphur, a spray for dormant scale control on fruits and ornamentals. Woolfolk Chemical Works Ltd., Fort Valley, Georgia.

SEL-KAPS. Contains Sodium Selenate for mite control on African violets and house plants, in capsule form. Stim-U-Plant Lab. Co., Columbus 16, Ohio.

SHERWIN-WILLIAMS INSECT SPRAYS & DUSTS. .75% Rotenone Dust (dust or spray) for chewing and sucking insects; 98% Lead Arsenate Spray, for insects and lawn grub-proofing; Lawn Insect Killer, 5% Chlordane, for soil infesting pests including ants; 25% DDT liquid emulsion, for area control of flies & mosquitoes, also caterpillars; 50% Wettable DDT (spray or dust), for shade and fruit tree insects. Sherwin-Williams Co., P. O. Box 92, Milwaukee Junction, Detroit, Mich. (Dist. E. of Miss. River and N. of Mason-Dixon Line).

Make Sprinkling a Pleasure with the new

COLORADO SPRINKLER

America's First "Hold It—Set It" all-purpose lawn Sprinkler. "The Smartest Thing on the Lawn."

FOR HAND sprinkling has hand-contoured 6-inch handle

FOR STATIONARY SPRINKLING just flip out and set the handy peg in the ground.

Tapered spray holes (patent pending) produce millions of tiny rain drops which gently soak right into a new or old lawn. Perfect pattern for garden, flowers, shrubs or that "hard to get at" place . . . Beautiful red or green permanent color. Will not break, rust or leak. Stays cool. Leave out in hottest sun and go right out and pick it up . . . (OPS approved price, $1.80). Introductory price, $1.49. If your dealer can't supply you, mailed Postpaid (Money Back Guarantee).

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Easily, Economically with a Masters Home Lawn Distributor

Model 40. 24" spread, 75 lbs. cap.

Other models from 18" to 36" spread.

Rugged all-steel Masters spreaders are built to give you a life-time of easy, accurate performance. Exclusive "Fertilizer Miser" fingertip control, located high on handle for your convenience, eliminates stooping to make adjustments; assures even, accurate spreads of costly seed and fertilizer to save you money and do a perfect job. No more wasteful pile-up of material in one place and insufficient amount in another. Heavy-duty steel wheels with wide-tread rubber tires to protect soft lawns.

For strongest and best lawn and garden cart buy Masters Handi-cart, two all-steel, 3½ cu. ft. models.

Buy the BEST, buy Masters at your hardware or seed store.

MASTERS PLANTER CO. Benton Harbor, Mich.

FISH MOSS and Plant Vitalizer

Keeps water clear. Fish feed on it. Fine for aquariums, indoors or outdoors, pools, lakes. Grows profusely. Also contains vitamins that promote plant growth and flower blooming sensationally. Conditions and aerates soil. Send $2 for liberal sized package or $5 for bushel.
BASSWOOD GARDENS, Route 3C, PLATTE CITY, MO.

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NOTT'S **CRAB-NOT SPECIAL**

POTASSIUM CYANATE with 2,4-D

KILLS DANDELIONS, CRAB GRASS, PLANTAIN CHICKWEED and ALL OTHER LAWN WEEDS

YELLOW LABEL

Special CRAB-NOT is the only potassium-cyanate crab grass killer containing 2,4-D for the simultaneous control of all broadleaf lawn weeds.

FOR A WEED-FREE LAWN

Just dissolve 5 teaspoonsful of Special CRAB-NOT to each gallon of water. Sprinkle on your lawn and watch the weeds disappear.

Apply Special CRAB-NOT early to eliminate dandelions, wild onions, wild garlic, etc. Now it's easy to have a perfect lawn without tedious, back-breaking labor.

Just sprinkle on

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Only 35c, Economy size $1.00

LIFE-SAVERS FOR LAWNS

Moles ruin your lawn, uproot costly bulbs, damage plant roots and demolish seed beds. Don't tolerate them . . . Just drop a few MOLE-NOTS in MOLE runways . . . MOLES consume them and die.

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SOLD IN GARDEN SUPPLY, HARDWARE AND DEPT. STORES

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SPEEDLINE blue-handle tools

One quick push makes the *SPEEDLINE* Lawn Broom wide and limber or narrow and stiff, to fit the work.

What's happened to the haphazard collection of heavy tools that hung in every garage? Gone with the hired man! Today we tend our own lawns and gardens, and enjoy it, with a set of these light, strong *SPEEDLINE* tools with the sharp, forged steel heads and smooth, weather-proofed blue handles. It's the fast and easy way to garden. You just reach for the right light tool.

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—and many others.

Other makes require only slight additional inexpensive attachment plate. • For complete prices and attachment details, write, giving name, model and engine hp. of your tractor.

A THOUSAND USES

Seed bed soil once over, plus a thousand year-round uses! Attaches quickly without alterations to tractors listed above—to all others with simple attachment plates. Easy to remove. Electrically welded steel chassis for rugged use. Two tiller widths in either front or rear mounted models. A choice of speeds and depth adjustment. Eliminates need for separate rotary tiller—saves time in weeding, turning poultry litter, and in all-around cultivating work. Flexible spring-mounted tines take adobe and stony soil in stride, need no sharpening. Thousands now in use. Be ready for spring planting—order now for immediate delivery.

12" and 16" models available in both front and rear mount depending upon make of tractor.

PRICES START AT $89.50

Motospade Power Tiller

"IT SPADES . . . while YOU walk!"

WEIGHS ONLY 80 LBS.

Designed especially for garden use. Full 24-inch width—adjusts to 18" and 12"

Freight Prepaid If You Send Us The Name of Your Local Garden Tractor Dealer and Cash With Order. MONEY BACK GUARANTEED.

SPADES the TOUGHEST SOIL—CULTIVATES POWERS *YOUR* LAWN MOWER

This new Roto-Spade brings you all the advantages of heavier, more costly machines—plus amazing versatility. The broad plate rotary spades cut, lift and turn the hardest adobe with ease, providing coarse or fine tilth as desired. Low-speed rotor turns from 15 to 100 rpm. Maximum freedom from weed tangling. Spades are self-sharpening, guaranteed against breakage. Save time, save your back. Order now.

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GARDENERS'

INSECTICIDES Continued

SLUG-O. A dust containing Metaldehyde, Calcium Arsenate. For control of slugs and snails. Andrew Wilson Inc., Springfield, N. J.

SNAROL. Meal or pellets containing Metaldehyde, kills slugs and snails; Cutworm Bait with Toxaphene, kills cutworms, armyworms, grasshoppers. Easy to use and safe. Boyle-Midway Inc., 22 E. 40th St., N. Y.

SOILCLOR. A spray with 50% W. Chlordane. For grubs, Jap. beetle larvae, wireworm and other soil insect control. Bonide Chemical Co., Utica 4, N. Y.

SPIDER-MITE DUST OR SPRAY. Aramite. Specific for mites and red spider. Niagara Chemical Division, Middleport, N. Y.

STANDARD PLANT SPRAY. Contains TDE; Pyrethrins; Piperonyl Butoxide; Rotenone; cube resins, mineral oil. Wide range control of most of the commonly prevalent insect pests of home garden vegetables and ornamental plants. Standard Oil Co., Chicago 80, Ill.

STANDARD PRESSURE-PAK SPRAY. General spray in aerosol form. Standard Oil Co. of Ind., Chicago, Ill.

SYNKLOR-50-W; SYNKLOR-48-E. Spray or dust, containing Chlordane. To control ants, army worms, chinch bugs, Japanese beetles, roaches etc. U. S. Rubber Co., Naugatuck Chem. Div., Naugatuck, Conn.

SYSTEMEX. Applied to soil and absorbed by plant. For ornamental plants only. Stern's Nurseries, Inc., Geneva, N. Y.

TAT. Spray or dust contains DDT, Chlordane, Benzine Hexachloride. For insect control in soil, subsoil, foliage, farm and fruit crops. O. E. Linck Co., Inc., Route 6 and Valley Rd., Clifton, N. J.

TAT ANT TRAP. Contains Thallium Sulphate. O. E. Linck Co., Inc., Route Six and Valley Rd., Clifton, N. J.

TICKS-OFF REPELLENT BOMB. A spray containing Hydrogenated Rotenone. Tick and chigger repellent for humans. Whitmire Research Laboratories, Inc., 339 S. Vandeventer St., St. Louis, Mo.

THOMPSON'S BUG FIX GARDEN. A spray containing Chlordane. Kills ants, spiders, roaches, etc. Thompson Chemicals Corporation, 3600 Monon St., Los Angeles 27, Calif. and Locust St., St. Louis 3, Mo.

TOXICHLOR WE-40. Spray containing Technical Chlordane 45.0% for control of soil insects, fruit and ornamentals, and termites; TOXICHLOR 40W contains 40% Tech. Chlordane. Wettable powder for insects. Thompson-Hayward Chem. Co., Kansas City, Mo.

THOMPSON-HAYWARD DUSTS: NON-INSEX 75, contains Rotenone 0.75%, a non-residual material for control of insects on vegetables; DED-TOX No. 5, with 5% DDT for insect control on flowers, vegetables ornamentals and shrubs; TOXICHLOR No. 5, with 5% Technical Chlordane; LINDEX No. 10 contains 1% Lindane for control of insects especially aphids. Thompson-Hayward Chem. Co., Kansas City, Mo.

VAPOTONE—XX SPRAY. Contains TEPP and kills various soft-bodied insects, especially red spider mites. California Spray-Chemical Corp., Lucas & Ortho Way, Richmond, Calif.

VOLCK OIL SPRAY. Contains petroleum oils. For house plants and garden use as a leaf polish and to control red spider, scale insects, mealybugs and white flies. California Spray-Chemical Corp., Lucas & Ortho Way, Richmond, Calif.

WETTABLE POWDER. A spray with 50% DDT. Avail. also a spray with 50% Methoxychlor, Technical. Both are insect controls for plants and animals and around buildings. Du Pont, Wilmington, Del.

GUIDE

WILSON'S ROTOFUME. A spray, with Rotenone & Pyrethrins. Non poisonous garden spray; WILSON'S SUPER-CIDE. Spray, of DDT, Rotenone, Pyrethrins. All purpose insecticide; WILSON'S SCALE-O. Refined mineral oil for scale; WILSON'S O. K. Spray with Potassium Oleate and Nicotine, a general all purpose spray; WILSON'S GRUB CONTROLLER. A dust for control of grubs in turf and gardens. Andrew Wilson Inc., Springfield, N. J.

FUNGICIDES

ACME BORDEAU MIXTURE. A spray with 50% copper sulfate, 50% lime. General preventative of diseases on fruit and shade trees and many ornamentals. Acme Quality Paints Inc., 8250 St. Aubin, Detroit, Mich.

ARNOLD SULPH-O-SPRAY. Contains Sulphur for mildew; ARNOLD FUNGO-SPRAY. Contains tribasic Copper Sulphate for fungus diseases. Garden Hose Spray Co. Inc., 7 Upland Rd., Cambridge 40, Mass.

BLACK LEAF. Sulphur spray; 25% Phygon Fungicide. Tobacco By-Products & Chem. Corp., 401 E. Main St., Richmond, Va.

CCC-31% COPPER SPRAY. Contains copper Orychloride Sulphate. Carbola Chemical Co. Inc., Natural Bridge, N. Y.

CHIPMAN SPRAYS & DUSTS. A full line of fungicides for plant diseases. Chipman Chemical Co., Inc., Bound Brook, N. J.

C-O-C-S COPODUST. Contains 6% Copper Oxychloride Sulphate for plant disease control; C-O-C-S COPPER MILDEW SPRAY, for protection against diseases. Niagara Chemical Division, Middleport, N. Y.

COPRQURE. Spray or dust containing copper Oxychloride. For protection against diseases in vegetable and flower garden. Bonide Chemical Co., Utica 4, N. Y.

DU PONT FUNGICIDES. Rose Dust or Spray containing Ferbam, Sulfur. For disease control on roses flowers and ornamentals; "Fermate" Ferbam Spray with 76% Ferbam; Fungicide-A, spray containing Zineb 65%, disease control on vegetables, certain flowers and fruits. Du Pont, Wilmington, Del.

F&B MICRO NU-COP. Spray or dust containing 53% Metallic Copper. For control of blight, mildew, anthracnose, leaf spot etc. on vegetable and fruit crops. Faesy & Besthoff Inc., 325 Spring St., N. Y. (All states east of Miss. River, also Minn., Iowa, Mo., Ark., La.).

FUNG-O. Spray containing Potassium Polysulphide, Potasium Thiosulphate. For control of mildew, rust and other fungi. Andrew Wilson Inc., Springfield, N. J.

FUNGTROGEN. A spray with Ammoniacal Copper. A combination fungicide and plant stimulant for the control of fungus diseases on horticultural and vegetable plants. Rose Mfg. Co., Beacon, N. Y.

HAMMOND'S GRAPE & ROSE DUST. Contains sulphur, copper, and controls blights, mildew and blackspot; excellent for roses. Hammond Paint & Chemical Co. Beacon, N. Y.

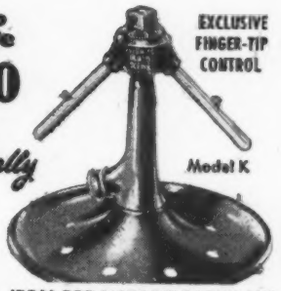
HAMMOND'S SUPER COPPER. A spray containing copper, ammonium, ammonia etc. Can be used in place of Bordeaux mixture. Controls fungus diseases; ideal for cucumbers, pepper, celery, tomatoes, carrots etc. Hammond Paint & Chemical Co., Beacon, N. Y.

LARVACIDE. A fumigent containing Chloropicrin. Sterilizes soil in greenhouses and plant beds, compost heaps. Kills weed seeds, most fungi and nematodes. It fumigates root cellars and storehouses. Kills and repels rats, mice and moles. Larvacide Products Inc., 117 Liberty St., N. Y.

MILDEX. Spray containing Dinitro Capryl Phenyl Crotonate. Powdery mildew control on roses, cucurbits. Larvacide Products, Inc., 117 Liberty St., N. Y.

Sunbeam Rain King
The BEST SPRINKLERS MADE

Set it to sprinkle 5 to 50 FEET automatically



The sprinkler you see on beautiful lawns everywhere. A turn of dial sets distance and spray automatically. Speed of revolving arms breaks up spray to give natural rain-like shower best for all lawns. Famous Sunbeam long-lasting quality. All exposed brass parts chromium plated.

IDEAL FOR NARROW PARKWAYS AND WIDE LAWNS

Sunbeam RainKing TRAVELING SPRINKLER

TRAVELS UP TO 100 FEET . . .

SHUTS OFF automatically

SET IT TO SPRINKLE 5 TO 50 FEET WIDE

WINDS UP STAINLESS STEEL TAPE TO PULL ITSELF ACROSS THE LAWN

Here's convenience you've always wanted in a lawn sprinkler. Waters small or large areas *and travels, too!* Wonderful for average lawn, long narrow parkway or large, open lawns. Can be set to sprinkle areas 5 to 50 feet wide. Set it. Forget it. No watching. No bother. Even goes around trees, corners, etc. Automatically cuts off at end of travel. Glides over small obstacles. Water-driven motor within sealed gear unit controls speed of travel to give perfect water distribution. Built to last. Sunbeam quality throughout.

Rain King Sprinklers for sale by better dealers everywhere.

5600 W. Roosevelt Rd. Dept. 183, Chicago 50 Illinois — Sunbeam CORPORATION — Canada Factory 321 Weston Rd Toronto 9

NO OTHER FENCE HAS ALL THESE FEATURES

NEVER-STAIN

Aluminum CHAIN LINK FENCING

FIRST COST IS LAST COST!

MAINTENANCE FREE!

LIFETIME BEAUTY! HIGH STRENGTH ALUMINUM ALLOY

RUST PROOF! NO PAINTING!

PLUS ALL FEATURES OF ANY FENCE

Available in heights from 3 feet to 12 feet.
Write for free booklet & name of nearest franchised distributor.

NICHOLS WIRE & ALUMINUM CO.
DAVENPORT, IOWA

World's Largest Manufacturer of Aluminum Nails

GROW MORE BEAUTIFUL ROSES

AND OTHER FLOWERS

Leaf
Green
Color
Leaves No Unsightly Residue

JUST DUST OR SPRAY with

Niagara

Farm and Garden Brand

POMO-GREEN

A COMBINATION INSECTICIDE-FUNGICIDE

Don't let insects and disease mar the beauty of your garden. Just dust or spray your roses, other flowers and ornamentals with *new* Pomo-Green. It quickly goes to work on the dreaded black spot—well known to rose growers—also mildew, rose chafer, aphids and other chewing and sucking insects. This better insecticide-fungicide combination is leaf-green in color to blend with foliage.

ECONOMICAL—EASY TO USE

Get in 1 lb. sifter top cans or 4 lb. bags from your dealer. Just dust or mix with water as a spray according to directions on the package.

OTHER NIAGARA AIDS TO GOOD GARDENING

KOLO

FRUIT TREE DUST OR SPRAY

A proven pest control for fruit trees. Protects against insects and diseases on apple, pear, peach, plum and prune trees. Comes in 1 lb. or 3 lb. bags.

C-O-C-S COPODUST

PROTECTS VEGETABLES

Gives sure protection against blights on potatoes, celery, beets, carrots and other hardy foliage vegetables. Just dust on. Economical 1 lb. cans, 5 lb. bags.

NEW

SPIDER-MITE

(Contains Aramite)

A *new* dust or spray for eradicating pesky, life sapping mites from roses, other flowers and evergreens, trees and ornamentals. Its leaf-green color blends with natural foliage. Now at your dealers in 1 lb. sifter top cans or 4 lb. bags.

FREE

DUST AND SPRAY GUIDE

This folder provides concise recommendations on insect and disease control for over 60 varieties of fruits, flowers, vegetables and ornamentals. Tells where, how and when to use Niagara products. Ask your dealer for free copy or write us.

In stock at seed, hardware and garden supply stores

Niagara FARM AND GARDEN BRAND

Insecticides, Fungicides, Weed Killers, Soil Conditioner

NIAGARA CHEMICAL DIVISION

FOOD MACHINERY and CHEMICAL CORP., Dept. C-5, Middleport, New York

WHEN YOU BUY Niagara YOU BUY PROTECTION fmc Trade Mark

GARDENERS'

FUNGICIDES Continued

MILLER'S MICROCOP. Spray or dust. Micronized Tribasic Copper with spreader and sticker. For control of Botrytis Blight on lilies. Use anywhere one would use Bordeaux. Does not stain foliage nor clog sprayer. Romaine B. Ware, Canby, Oregon.

NUTONEX SULPHUR. Spray or dust. For powdery mildew, leaf spot, brown rot. Woolfolk Chemical Works, Ltd., Fort Valley, Georgia.

ORCHARD BRAND BORDEAUX MIXTURE. A spray containing 12.75% Copper. Fungicide for fruits, vegetables. General Chemical Div., Allied Chemical & Dye Corp., 40 Rector St., N. Y.

PMAS. Spray containing Phenyl Mercury Acetate. For control of snow mold, copper spot, dollar spot, brown patch, fairy ring, and pink patch. W. A. Cleary Corp., P. O. Box 749, New Brunswick, N. J.

PHYGON ROSE DUST. Spray or dust, containing 2, 3 Dichloro; 1, 4 Naphthoguinone. For black spot and mildew of roses; celery blight; cherry leaf spot; apple scab; brown rot of stone fruits. U. S. Rubber Co., Naugatuck Chemical Div., Naugatuck, Conn.

SCUTL. Contains Phenyl Mercuric Acetate. Reduces leaf spot disease in Bluegrass lawns. O. M. Scott & Sons Co., Marysville, Ohio.

SECURITY BRAND BORDEAUX MIXTURE. A spray containing basic copper and zinc. For leaf spot, downy mildew and anthracnose. Woolfolk Chemical Works, Ltd., Fort Valley, Georgia.

SEEDTONE. A dust containing N-trichloromethylthio tetrahydrophthalimide. To control seed decay, damping-off and seedling blights. American Chemical Paint Co., Ambler, Penn.

SPERGON WETTABLE. Spray or dust containing Tetrachloro-para-benzoquinone (Chloranil). For control of cabbage downy mildew, brown patch in lawns, as a dip for glad. and lily bulbs. U. S. Rubber Co., Naugatuck Chemical Div., Naugatuck, Conn.

STANDARD FUNGICIDE. Spray containing Alkyl Dimethyl Benzyl Ammonium Chloride. For control of apple scab. Standard Oil Co., Chicago 80, Ill.

TAT-C-LECT-DYNACIDE. Spray or dust containing Mercury for control of fungus, mildew etc. O. E. Linck Co., Inc., Route 6 and Valley Rd., Clifton, N. J.

TOMATO DUST. Spray or dust containing neutral copper Oxychloride. For early and late blight control of tomatoes. Bonide Chemical Co., Utica 4, N. Y.

WETTABLE & DUSTING SULPHUR. Dust or spray, containing sulphur. For flowers and vegetables, for black spot and mildew on roses etc. Niagara Chemical Division, Middleport, N. Y.

WILSON'S ANTI-DAMP. A spray containing Hydroxy, Quinoline and Benzoate. Stops damping-off of seedlings. Andrew Wilson, Inc., Springfield, N. J.

INSECTICIDE—FUNGICIDES

ACME SPRAYS AND DUSTS. ALL ROUND SPRAY, or dust. Multi-purpose blend for many insects and fungi; RED RIVER POTATO MIX, contains DDT to control insects and fungi on potatoes; TOMATO DUST, insecticide and fungicide combined especially for use on tender foliage of tomatoes; BUG BLASTER JR. a multi-purpose dust and pump gun, all in one. Acme Quality Paints Inc., 8250 St. Aubin, Detroit, Mich.

ACP ROSE & FLORAL DUST. Spray or dust to control insects, diseases, mites, aphids. American Chemical Paint Co., Ambler, Pa.

BONROTE. Spray or dust containing Rotenone-sulphur. For insects and diseases on flowers, beans. Bonide Chemical Co., Utica 4, N. Y.

BONSUL. Spray or dust containing 95% micronized wettable sulphur. To con-

GUIDE

trol scab, scale, spider mites on flowers and fruits. Bonide Chemical Co., Utica 4, N. Y.

BONTOX. Spray, dust or fumigant. Contains Rotenone, Menthyl Naphthalenes, Neutral Copper. Protection against insects and diseases. Bonide Chemical Co., Utica 4, N. Y.

BOTANO DELUXE. A dust for multipurpose control of chewing and sucking insects, soil insects, plant diseases, spiders etc. California Spray-Chemical Corporation, Lucas & Ortho Way, Richmond, Calif.

CCC FRUIT TREE SPRAY. CCC ROSE DUST & SPRAY; CCC 3-7 Dust; CCC 25-31 Spray; CCC Copper Rote Dust. Carbola Chemical Co. Inc., Natural Bridge, N. Y.

C-O-C-S DUSTS & SPRAYS. Against insects and diseases: COPOTEX contains C-O-C-S and Calcium Arsenate for blight control of potatoes, tomatoes and other vegetables; C-O-C-S POTATO DUST OR SPRAY on potatoes and hardy vegetables; C-O-C-S CUKE & MELON DUST contains basic Copper and Calcium Arsenate for cucurbits. Others available. Niagara Chemical Division, Middleport, N. Y.

CHIPMAN SPRAYS & DUSTS. A full line of combination insecticides and fungicides for control of insects and diseases. Chipman Chemical Co., Inc., Bound Brook, N. J.

CROSS COUNTRY SPRAY OR DUST. All purpose insecticide and fungicide; ROSE SPRAY for insects or diseases; TOMATO DUST; FRUIT SPRAY. Sears Roebuck & Co., 925 S. Homan Ave., Chicago, Ill.

CUCUMBER MELON DUST. 1% Rotenone, 3.9% Zineb. Insect and disease control on Cucurbits. Miller Chemical & Fertilizer Corp., 2226 N. Howard St., Baltimore 18, Md.

CUKTOX. Contains Rotenone, copper; spray or dust. For cucurbit insects and diseases. Bonide Chemical Co., Utica 4, N. Y.

D & P ROSE & GARDEN DUST. Contains DDT, Ferbam, Lindane, Rotenone and Sulphur. D & P TOMATO DUST, D & P FRUIT SPRAY. Doggett-Pfeil, Springfield, N. J.

DETCOP. Spray or dust containing DDT, copper. For blights and insects on potatoes. Bonide Chemical Co., Utica 4, N. Y.

DU PONT DUSTS & SPRAYS. Tomato Dust (or spray) for tomato blight and insect control; Vegetable Garden Dust (or spray) for use on all vegetables; Floral Dust (or spray) for roses, flowers, ornamentals; Fruit Tree Spray. Du Pont, Wilmington, Del.

EMO-NIK. Oil nicotine, controls aphis, mealy bugs, red spider, rust. Acme Quality Paints Inc., 8250 St. Aubin, Detroit, Mich.

END-O-PEST. Dust for control of chewing and sucking insects, fungus diseases. Swift & Co., Plant Food Div., Union Stock Yards, Chicago, Ill.

F&B DUSTS AND SPRAYS. Fruit Tree Spray or Dust. Controls fungus diseases and chewing insects on fruit trees; Vegetable Dust or Spray. Use on tomatoes, beans, strawberries, melons and related plants to control Mexican bean beetle, leaf hopper, aphis weevil, early or late blight. Faesy & Besthoff Inc., 325 Spring St., N. Y. (All states east of Miss. River, also Minn., Iowa, Mo., Ark., La.).

FRUIT TREE SPRAY. To control insects and diseases in the home orchard. American Chemical Paint Co., Ambler, Pa.

GEIGY GARDEN DUST. Dust or spray, for control of insects, fungi on flowers and vegetables; GEIGY ROSE DUST. Dust or spray, controls insects and fungi on roses. Geigy Co., Inc., 89 Barclay St., N. Y.

GO-NEX 25% DDT. Spray for gardens and out buildings. Goulard & Olena Inc., Skillman, N. J.

USE THESE TESTED PRODUCTS

for finer flowers fruit and vegetables

ACP ROSE & FLORAL DUST

use as dust or spray

Now you can protect your prized flowers against everything—disease, insects and mites—with this one product. It's a fungicide, insecticide, aphicide and miticide all in one. Controls leaf spot, black spot, anthracnose, powdery mildew and rust; also aphids, leaf hoppers, rose chafers, spider mites (red spiders), thrips, lace bugs, Japanese beetles, etc. Proved and acclaimed by rose experts everywhere!

1-lb. canister $1.49 **3-lb. canister $3.59**

ACP FRUIT TREE SPRAY

season-long protection

This fungicide-insecticide will carry you through the whole growing season. Contains two powerful insecticides and two efficient fungicides to control most fruit-tree insects and diseases. A sure way to produce unblemished fruit from the home orchard.

12-oz. canister $1 **3-lb. canister $2.75**

SEEDTONE . . .

for better germination

If you grow 'em from seed, you need Seedtone. It protects flower and vegetable seed against soil-borne diseases.

½-oz. packet 25c **3-oz. can $1**
1-lb. can $4

ROOTONE®

with fungicide

Make cuttings from your favorite plants, indoors or out. First dip them in Rootone, and you'll get better root systems and healthier growth. Newly added fungicide controls damping-off and other soil-borne diseases.

¼-oz. packet 25c **2-oz. jar $1**

FRUITONE®. . .

for bigger and better tomatoes

Spray tomato buds at blossoming time, and each plant will set bigger, meatier tomatoes. Treat limas and string beans, too.

2/5-oz. packet 25c **2-oz. canister $1**

TRANSPLANTONE®. . .

the hormone-vitamin

A real start in life for your flower and vegetable seedlings. A pinch of Transplantone in the water you pour on them, and seedlings—shrubs, too—recover fast from transplanting shock.

½-oz. packet 25c **3-oz. canister $1**

Chemicals ACP Processes

AT YOUR GARDEN SUPPLY STORE

AMERICAN CHEMICAL PAINT CO., Ambler, Pa. • Niles, Calif.

Makers of Weedone®; Weedone Crab Grass Killer; Gro-Stuf; ACP Soil Conditioner; Trimtone

GIVE YOUR SEEDS A BETTER START—
CHANGE "PROBLEM" SOIL TO

Friendly Soil

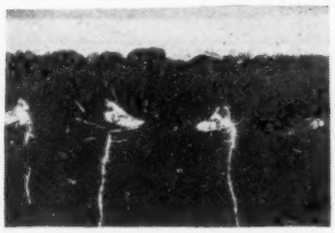
WITH KRILIUM* SOIL CONDITIONER

See the difference!

See how untreated soil, 24 hours after watering, shrinks, packs and hardens, making it extremely difficult for seeds to get a good start.

Same soil as at left—but treated with Krilium—24 hours after watering. See how soil conditioned with Krilium maintains loose, crumbly, porous structure.

See the results!



This "profile" photograph shows early stage of germination in soil treated with Krilium soil conditioner. Note loose, crumbly structure.

See how root formation and the beginnings of free and easy emergence are encouraged by proper soil structure.

Showing completed emergence and the formation of a strong, healthy root growth. Plants are firmly established.

Note the healthy start for vegetables and flowers assured by Krilium soil conditioner. Gardening becomes a pleasure!

This season you can get the first full year's benefit of Krilium soil conditioner in *all* your gardening projects! Because it maintains soil in loose, crumbly structure, Krilium greatly encourages easier germination, strong root formation and freer emergence. You get improved soil stability—increased water absorption—better aeration—easier cultivation—easier weeding. Krilium's effects last! Save you many hours of backbreaking work! Why not change "problem" soil to *friendly* soil with Krilium soil conditioner and see the big difference when plants break through.

If you use fertilizer—*this year use Folium*, Monsanto's new balanced, leaf-feeding plant food, for lawns, vegetables, flowers.

**Reg. U. S. Pat. Off.*
Folium: Monsanto Trade-mark

NEW LOW KRILIUM PRICES

5-lb. Garden Mixture $4.95 | 1-lb. Garden Mixture $1.39 | Full-strength Krilium for larger areas.

Krilium
"REG. U. S. PAT. OFF."
SOIL CONDITIONER
Helps Germination, Root Growth, Emergence—Maintains Loose, Porous, Crumbly Soil
Merchandising Division
MONSANTO CHEMICAL COMPANY

MONSANTO

GARDENERS'

INSECTICIDES-FUNGICIDES Continued

HAMMOND'S DUSTS. SLUG SHOT is effective against sucking and leaf eating insects and fungus; TOMATO DUST controls tomato blight and certain insects on tomatoes; CUROTE DUST gives effective control on insects and fungus diseases on practically all flowering and vegetable plants; FORMICIDE is a soil sterilizing agent. It destroys fungus diseases which cause damping off. It stimulates growth of seedlings. Hammond Paint & Chemical Co., Beacon, N. Y.

HAMMOND'S SPRAYS. HORICUM controls San Jose scale, blister mite and peach leaf curl; KIX is control for insects and fungus on roses. Hammond Paint & Chemical Co., Beacon, N. Y.

HEXATE. Spray to control insects and fungus. O. E. Linck Co., Inc., Route Six & Valley Rd., Clifton, N. J.

JACKSON & PERKINS ROSE SPRAY OR DUST. General purpose spray for roses and other plants. Jackson & Perkins Co., Newark, N. Y.

KNOX OUT MULTI-PURPOSE GARDEN DUST. Contains DDT, Cryolite, Copper. To kill wide range of flower and vegetable garden pests, mildews, blights and fungi. Pennsylvania Salt Mfg. Co., 1000 Widener Bldg., Philadelphia, Pa.

KOLO FRUIT TREE DUST OR SPRAY. DDT, Lead Arsenate, Sulphur. For fruit trees. Niagara Chemical Division, Middleport, N. Y..

MILLER DUSTS & SPRAYS. TOMATO DUST contains 1% DDT, 7% copper for insect and disease control on tomatoes and potatoes; GARDEN DUST contains 5% Methoxychlor, 6½% Zineb an insect and disease control on vegetables; NEW FRUIT SPRAY OR DUST contains 6% DDT, 6.9% Ferbam, 36% Sulphur, 9% Methoxychlor for insect and disease control on fruits. Miller Chemical & Fertilizer Corp., 2226 N. Howard St., Baltimore, Md.

MILLER'S IMPROVED GARDEN SPRADUSTO. Spray or dust for the flower garden; MILLER'S VEGETABLE DUST (or spray) for the vegetable garden for insects and diseases. Miller Products Co., Ft. of S. W. Caruthers, Portland 1, Oregon. (Regional distribution in Oregon, Wash., Idaho, Utah, Western Montana and Calif.).

MYSTIKIL ROSE DUSTER. For the control of insects and fungi on flowering plants. Lethelin Products Co., Inc., 15 Macquesten Parkway, South, Mount Vernon, N. Y. (East of Miss. River Distribution).

ORTHO SPRAYS & DUSTS. Home Orchard Spray, controls 27 different insects and diseases on fruit trees strawberries etc; Rose Dust controls major insect pests and diseases on roses and other flowers; Vegetable Dust controls many vegetable insects and diseases. California Spray—Chemical Corp., Lucas & Ortho Way, Richmond, Calif.

OVOTOX. Dust or spray to control red spider, worms, aphids, scale, diseases on evergreens, ornamentals, roses, shrubs. Bonide Chemical Co., Utica 4, N. Y.

PAN PLANT SPRAY. Insect and disease control on flowers. Also PAN PEACH SPRAY & PAN APPLE SPRAY. Woolfolk Chemical Works, Ltd., Fort Valley, Georgia.

PLANTGARD. A dust for control of insects and fungus diseases. Packed in Bug Duster, ready to use. Agkem Inc., Div. of the Kalo Co., 506 Maine St., Quincy, Ill.

PLANT PLATE. "The spray that stays". A combination insecticide, fungicide and plant food that also contains an adhesive which stays on in spite of all weather conditions. Milligan Bro., Jefferson, Iowa.

POMO-GREEN. Dust or spray. DDT, Lindane and Sulphur. For roses and other ornamentals. Niagara Chemical Division, Middleport, N. Y.

GUIDE

PRATT'S FRUIT TREE SPRAY OR DUST. All purpose fruit spray; PRATT'S TOMATO & VEGETABLE DUST OR SPRAY. Controls insects and diseases on vegetables. B. G. Pratt Co., Hackensack, N. J.

ROSETOX. Spray or dust. All-purpose rose protection. Bonide Chemical Co., Utica 4, N. Y.

ROTECIDE TOMATO & VEGETABLE DUST. For insects and diseases. Rotenone Products Co., 110 Eaton Place, East Orange, N. J.

SECURITY BRAND ROSE DUST. Insect and disease control of roses and other plants; TOMATO DUST, for tomatoes and potatoes. Woolfolk Chemical Works Ltd., Fort Valley, Georgia.

SHERWIN-WILLIAMS GARDEN DUSTS AND SPRAYS. For insects and fungi in flower or in vegetable gardens; Fruit Spray, multi-purpose insect and fungi protection for fruit trees. Sherwin-Williams Co., P. O. Box 92, Milwaukee Junction, Detroit, Mich. (Dist. E. of Miss. River & N. of Mason-Dixon Line).

STAR ROSE SPRAY, STAR ROSE DUST. For control of black spot, mildew, rust and rose infesting insects. The Conard-Pyle Co., West Grove, Pa.

SULPHURS. Lime Sulfur, a dorment spray to control scale insects, rusts, mildew on fruit trees, shrubs, nursery stock. Also Wettable Dusting Sulfur for fungus diseases, mites and chiggers. Acme Quality Paints Inc., 8250 St. Aubin, Detroit, Mich.

TOMATOX. Spray or dust to control insects and diseases on tomatoes. Bonide Chemical Co., Utica 4, N. Y.

TREETOX. Spray or dust, all purpose fruit tree spray. Bonide Chemical Co., Utica 4, N. Y.

TRI-OGEN 3 WAY ROSE DUST; TRI-OGEN 3 WAY ROSE SPRAY. Controls insect and fungus diseases especially on roses. Rose Mfg. Co., Beacon, N. Y.

WILSON'S TRI-SURE ROSE SPRAY. Controls insects and diseases on roses; WILSON'S TRIP-L-WAY SPRAY POWDER. A dust for control of insects and diseases. Andrew Wilson Inc., Springfield, N. J.

WYANT ROSE DUST. With Parathion, for control of red spider and other insects, also plant diseases. Wyant Rose Dust comes also with Fermate content, a general garden dust. Melvin E. Wyant Rose Specialists, Inc., Johnny Cake Ridge, Mentor, Ohio.

HERBICIDES

Non Selective

ACME WEED KILLER. 32.5% Arsenic Triopide. For use where complete freedom from vegetation is desired. Acme Quality Paints Inc., 8250 St. Aubin, Detroit, Mich.

ARNOLD WEED-O-SPRAY. Contains 2,4-D Monohydrate, to kill weeds. Garden Hose Spray Co. Inc., 7 Upland Rd., Cambridge, Mass.

BLACK LEAF ARSENICAL WEED KILLER. Tobacco By-Prod. & Chem. Corp., 401 E. Main St., Richmond, Va.

CHIPMAN NON-SELECTIVE HERBICIDES. Several types both liquid and powder for weed killing. Chipman Chemical Co., Inc., Bound Brook, N. J.

CROSS COUNTRY WEED AND GRASS KILLER. Contains Arsenic. Sears Roebuck & Co., 925 So. Homan Ave., Chicago, Ill.

D & P WEED KILLER. Doggett-Pfeil, Springfield, N. J.

DU PONT AMMATE WEED KILLER. Applied as spray. Ammonium Sulfamate 80%. To kill poison ivy, brush, other unwanted vegetation. Du Pont, Wilmington, Del.

FAIRMOUNT WEED KILLER. Contains Sodium Arsenate. For killing all vegetation along paths, roadways, gutters, tennis courts, etc. Rose Mfg. Co., Beacon, N. Y.

See how simple and easy it is to apply food and drink to lawns, merely by spraying with a solution of Folium.

Have a lovelier lawn with Folium plant food

Nourish your lawn with Folium—Monsanto's new balanced plant food—companion to Krilium* soil conditioner. Folium is a water-soluble concentrate that quickly and thoroughly dissolves in plain water—forms a clear solution that will not burn tender leaf areas or shock young or delicate plants.

Folium is very convenient to apply. Sprinkle small areas—spray large areas, with siphon-spray equipment. Solution is absorbed by the plant within 30 minutes of application. Folium is a leaf-feeding nutrient, equally effective when applied to leaves, stems or roots—ideal for lawns, flowers, shrubs, small fruits, vegetables, shade trees, house plants. Very economical.

Easy to mix, easy to apply. For siphon-spray equipment just fill a container (2½ or 3 gallon bucket) with water and add the amount of dry Folium powder needed for the area to be treated. Then spray . . . For standard solution, merely mix 4 level teaspoons of dry Folium powder with a gallon of water.

Get Folium at your dealer's—in 2-oz., 1-lb. and 5-lb. packages. MONSANTO CHEMICAL COMPANY, Merchandising Division, 1700 South Second Street, St. Louis 4, Missouri.

**Reg. U. S. Pat. Pat.*
Folium: Monsanto Trade-mark

See striking results! *Tomato plant at right shows effect of spraying with standard Folium solution. Both plants were of same size when leaf feeding began.*

Sprinkle small areas

Spray large areas

Folium*
*Monsanto Trade-mark
BALANCED PLANT FOOD
Water-Soluble Concentrate
Leaf-Feeding Liquid Fertilizer
Merchandising Division
MONSANTO CHEMICAL COMPANY

MONSANTO

KILLER KANE

Kills weeds with a SQUIRT!

NO STOOPING, NO DIGGING

Bulls-eye control of weed spray SAVES CLOVER!

KILLS WEEDS AS FAST AS YOU WALK

Just place point on weed . . . press lightly . . . release . . . and measured dose of spray (2,4-D or other weedicide) drenches weed. Can be used close to flowers, shrubs without danger. One fill treats 1,000 weeds. Made of durable plastic and brass. Lasts for years.

At leading hardware department, garden and nursery stores $1.98 Slightly higher west of the Rockies.

DONALDSON COMPANY, INC.
666 Pelham Blvd., St. Paul 14, Minn.

GROW FLOWERS of RAREST BEAUTY

Gro-Crop is LIQUID ALL THE WAY!
Gro-Crop contains the 28 trace and micro elements vitally necessary to healthy plant life. They are so microscopic in quantity that only liquid can give even distribution.

Gro-Crop is COMPLETELY INORGANIC!
Plants feed solely on inorganic matter. Thus Gro-Crop is instantly available! No organic matter to handle. Only the purest chemicals.

Gro-Crop is a FERTILIZER, NOT JUST "PLANT FOOD"!
Laws permit only products containing nitrogen, phosphate and potassium—the all important big three—to be labeled "fertilizer".

One tablespoon makes one gallon of fertilizer. Ask your dealer. If unavailable order direct. Send $1.50 for pint bottle (makes 32 gallons fertilizer).

GRO-CROP, INC.
Summerdale, Alabama

FREE FLOWER BOOK

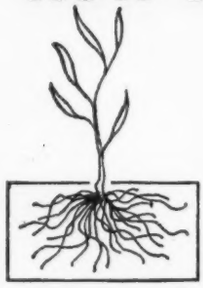
Write today for free illustrated book—cultural directions, pronouncing index, germination table. 3000 varieties—old and new. Many rare kinds. Yours for the asking. Send a postcard today!

Geo. W. Park Seed Co., Greenwood 32, S. C.

APPROVAL OFFER
On Sample Power Mowers

DEALER SPECIAL. Franchise deal. County agency. Extra profit. MOST POWERFUL Electric —½ hp., 3300 rpm; Gas — 2 hp. 10" Wheels. BOTH — 18" cut; rear Castor wheels. BILD-A-MOWR Unit — for "hobby builders." $2.00 freight allowance. Write quick. ROTACUT, RDM-79, Excelsior Springs, Mo.

NOW Your Cuttings Will Root —OR MONEY BACK!



No more disappointments! No more rooting failures! Sensational new aid for gardeners makes amateur propagators the equal of professionals. Eliminates guess-work even for traditionally "hard-to-root" varieties.

NEW EASY WAY PROVED BEST BY PROFESSIONALS

Years of experimental research by Mark Eaton, famous proprietor of the nursery Lilac-Land, and associated experts have produced the TWO wonder-working formulas you get in this KIT. Below the ground, ROOT-PROD, above the ground, LEAF-GARD, work together for your success. Sturdy roots, luxuriant plants, in record time—or your money back. Both products are in daily use at Lilac-Land. "We couldn't get along without them," says Eaton. Order TODAY! MAKA PRODUCTS, Dept. S-1, Sea Cliff, N. Y.

UNCONDITIONALLY GUARANTEED (Dealers—inquiry invited.)

Complete Propagating Kit

Your kit contains
1. Complete instructions for making cuttings and directions for using.
2. ROOT-PROD A for succulent cuttings.
3. ROOT-PROD B for harder cuttings.
4. Generous supply of LEAF-GARD to help preserve foliage during the rooting period.

ONLY $2.98

MAKA PRODUCTS, Dept. S-1, Sea Cliff, N.Y.
Send Mark Eaton's complete Propagating Kit. Enclosed is $2.98. If I am not completely satisfied my money is to be refunded in full without question.

Name_____
Address_____ Zone____
City_____ State____

GARDENERS'

HERBICIDES Continued

F&B WEED KILLER. Contains Sodium Arsenate 34%. Kills all weeds, grass seeds etc. on tennis courts, driveways or anywhere that weeds and grasses are not wanted. Faesy & Besthoff Inc., 325 Spring St., N. Y. (All states east of Miss. River, also Minn., Iowa, Mo., Ark., La.)

GENERAL CHEMICAL SODIUM ARSENATE SOLUTION. With 40% S.A. for general weed control. General Chemical Div., Allied Chemical & Dye Corp., 40 Rector St., N. Y.

G&O WEED & POISON IVY KILLER. Contains Sodium Arsenate. Goulard & Olena Inc., Skillman, N. J.

GRASS-N-WEED. Contains Sodium Pentaborate, Sodium Tetraborate, Sodium Chlorate. To kill all non-desirable vegetation. Bonide Chemical Co., Utica 4, N. Y.

POLYBOR-CHLORATE. Contains Sodium Borates and Sodium Chlorate. For patios, driveways, paths, parking lots. Non-fire hazardous. Pacific Coast Borax Co. Div. of Borox Consolidated Ltd., 630 Shatto Pl., Los Angeles 5, Calif.

THOMPSON'S PHYTOCIDE. Contains Pentachlorophenol. General contact herbicide. Thompson Chemicals Corp., 3600 Monon St., Los Angeles, Calif.

TRIOX. Contains Arsenic Trioxide. Kills weeds and prevents plant growth for 1-2 yrs. For use on driveways, brick walks etc. where no plant growth is wanted. California Spray-Chemical Corp., Lucas and Ortho Way, Richmond, Calif.

WEEDMASTER GRASS KILLER. Sodium TCA. For Johnson and quack grass control. Michigan Chemical Corp., St. Louis, Mich.

WEEDNIX. Contains Sodium Isopropyl Xanthate. Contact herbicide for most herbaceous weeds; OKTONE. Contact herbicide for greenhouse walks, under benches etc. Larvacide Products, Inc., 117 Liberty St., N. Y.

WILSON'S WEED KILLER. Sodium Arsenate. To kill all vegetation in walks, tennis courts etc. Andrew Wilson Inc., Springfield, N. J.

Selective

ALUNAP-1. Contains N-1 Naphthyl phthalamic acid. For weed killing, pre-emergence and post emergence. U. S. Rubber Co., Naugatuck Chem. Div., Naugatuck, Conn.

ARGUSIDE. Contains Permanganate of Potassium. For the control of algae in fish and lily pools. Argucide Co., Div. of Lakeview Aquatic Farms, 5579 Colerain Ave., Cincinnati, Ohio.

BLACK LEAF CRABGRASS KILLER. Tobacco-By-Products & Chem. Corp., 401 E. Main St., Richmond, Va.

CHIPMAN SELECTIVE HERBICIDES. Several products for weed killing in lawn, turf, unwanted trees and shrubs. Chapman Chemical Co., Inc., Bound Brook, N. J.

CRABEX. Arsenate of lead. For control of crabgrass in lawns. Rose Mfg. Co., Beacon, N. Y.

CRAB-NOT. Potassium Cyanate plus 2,4-D. Against crabgrass, chickweed, dandelion, plantain etc. Nott Mfg. Co., Box 87, Mt. Vernon, N. Y.

CRAG HERBICIDE 1. Contains Sodium 2,4-D sulfate. Weed preventer, kills germinating weed seeds. Carbide & Carbon Chemical Co., Div. of Union Carbide & Carbon Corp., 30 E. 42nd St., N. Y.

CROSS COUNTRY WEED CONTROL. 14% 2,4-D. Weeds in lawns etc.; CRAB GRASS CONTROL, with Potassium Cyanate. Sears Roebuck & Co., 925 So. Homan Ave., Chicago, Ill.

C.W.K. CHICKWEED KILLER. Contains Potassium Cyanate and Sodium Arsenate. Garden Products Co., 3246 S. Grand Blvd., St. Louis, Mo.

DED-WEED LAWN GROOM. Contains 14% Amine Salt of 2, 4-D, for control of broad-leaved weeds in lawns; DED-WEED CRAB GRASS KILLER contains Potassium Cyanate 55% for crabgrass and chick weed. Thompson-Hayward Chem. Co., Kansas City, Mo.

GUIDE

DIOWEED. Contains 2,3-D for lawn weed control. Bonide Chemical Co., Utica 4, N. Y.

DOUBLE O CRABGRASS KILLER. Contains Sodium Arsenite. Doggett-Pfeil Co., Springfield, N. J.

DU PONT LAWN WEED KILLERS. 2,4-D acid equiv. 11.5%, or No. 2 contains an acid equiv. of 2,4-D 22.2%. For control of broad leaf weeds in lawns. Du Pont PC Crabgrass Killer contains Potassium Cyanate 52.5%. For control of crabgrass and chickweed in lawns. Du Pont, Wilmington, Del.

END-O-WEED. Contains low voltage ester of 2,4-D-22.4%. For broad-leaved weeds in lawns; END-O-WEED CRAB GRASS KILLER, contains Potassium Cynate 60%. For crabgrass and chickweed. Swift & Co., Plant Food Div., Union Stock Yards, Chicago, Ill.

F&B POTASSIUM CYNATE CRAB GRASS KILLER. Contains 77% Tech. Potassium Cynate. Eliminate crabgrass and chickweed from lawns without killing clover, blue grass etc. Faesy & Besthoff Inc., 325 Spring St., N. Y. (All states east of Miss. River, also Minn., Iowa, Mo., Ark., La.).

GENERAL CHEMICAL ½-⅔ BRUSH KILL. Contains 2,4-D and 2,4,5-T. For brush and broad leaf weed control; GENERAL CHEMICAL 2,4-D AMINE, selective weed control. General Chemical Div., Allied Chemical & Dye Corp., 40 Rector St., N. Y.

G&O CRABGRASS KILLER. Contains Sodium Chlorate; G&O GO-CRAB, contains Potassium Cynate. Goulard & Olena Inc., Skillman, N. J.

HAMMOND'S DO-DI LAWN WEED KILLER. Contains 2,4-D. Kills dandelion, poison ivy, ragweed, plantain and other broad leaf plants; CRAB GRASS KILLER contains Pot. Cynate and destroys crabgrass and chickweed. Hammond Paint & Chemical Co., Beacon, N. Y.

HERCULES R-D. Root destroyer. Contains no lye, caustic soda or acid. Prevents and clears root-blocked sewers and sanitary drains from roots fungus and slime. Does not harm trees and shrubs. Hercules Chem. Co., 322 Canal St., New York, N. Y.

KIBRUSH. Contains 2,4-D; 2,4,5-T. For poison Ivy, undesirable, brush, weeds etc. Bonide Chemical Co., Utica 4, N. Y.

KNOX OUT WEEDS. With 2,4-D Alkanolamine Salt. For control of certain broad-leaf weeds and plants. Pennsylvania Salt Mfg. Co., 1000 Widener Bldg., Philadelphia, Pa.

KRAB. Contains 75% Potassium Cyanate. For killing crabgrass, chickweed. Bonide Chemical Co., Utica 4, N. Y.

LIQUID WEEDAWAY. Spray, 41.5 So.2,4-D. Acid equivalent. Broadleaf weed control in lawns and certain vegetables. Miller Chemical & Fertilizer Corp., 2226 N. Howard St., Baltimore 18, Md.

MH-40. Contains Maleic Hydrazide, for control of wild onion and garlic. U. S. Rubber Co., Naugatuck Chemical Div., Naugatuck, Conn.

MILLER'S IMPROVED LAWN HORMOTOX. 2,4-D and 2,4,5-T. For control of lawn weeds. Miller Products Co., Ft. of S.W. Caruthers, Portland 1, Oregon. (Reg. dist. in Oregon, Wash., Idaho, Utah, Western Montana and Northern Calif.).

MILLER P-C WEED KILLER. 76% Potassium Cyanate. Crabgrass and chickweed control in lawns. Miller Chemical & Fertilizer Corp., 2226 N. Howard St., Baltimore 18, Md.

ORTHO-CRAB GRASS KILLER. Contains Phenylmecuric Acetate. Kills crabgrass. ORTHO Grass Killer. Contains IPC and controls annual grasses in vegetable gardens, flower beds. Also controls Bermuda and quack grass. (This grass killer available west of the Rockies only). California Spray-Chemical Corp., Lucas and Ortho Way, Richmond, Calif.

P.C.80 CRAB GRASS KILLER. Contains 80% Potasium Cyanate. Garden Products Co., 3246 S. Grand Blvd., St. Louis, Mo.

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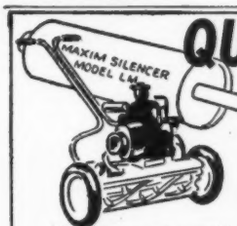
CRAG Herbicide-1 is also available to commercial growers in 2 lb. and 50 lb. containers.



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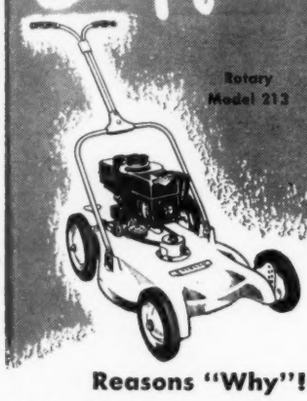

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GARDENERS'

HERBICIDES Continued

PMAS. Contains Phenyl Mercury Acetate. Selective crabgrass killer. W. A. Cleary Corp., P. O. Box 749, New Brunswick, N. J.

PRATT'S P.C. CRAB GRASS KILLER. Contains Potassium Cyanate. Kills crabgrass and chickweed. B. G. Pratt Co., Hackensack, N. J.

SCOTTS 4-XD. Contains 2,4-D. Selective weed control for most broad-leaved weeds. Applied dry. O. M. Scott & Sons Co., Marysville, Ohio.

SCOTTS WEED & FEED. Contains 2,4-D and 2,4-D combined with 7-11-5 high organic fertilizer. Destroys most broad-leaved weeds selectively, and feeds the grass at the same time. Applied dry. O. M. Scott & Sons Co., Marysville, Ohio.

SCUTL. Contains Phenyl Mercuric Acetate. Selectively controls common crabgrass in lawns. O. M. Scott & Sons Co., Marysville, Ohio.

STANDARD 2,4-D WEED KILLER NO. 4. For control of broad-leaf weeds in lawns and other turf areas. Standard Oil Co., Chicago 80, Ill.

THOMPSON'S WEEDICIDE. Contains 2,4-D. Weed killer. Thompson Chemicals Corp., 3600 Monon St., Los Angeles 27, Calif. and 3028 Locust St., St. Louis 3, Mo.

WEEDABOMB. Contains 2,4-D. Flick of trigger kills dandelion, plantain, pigweed, ragweed, and other broad-leaved weeds, roots and all. Thompson Chemicals Corp., St. Louis 3, Mo.

WEEDANOL AMINE 40. Contains 2,4-D for golf and lawn weed control; WEEDANOL CLOVER-TOX, contains 2,4-D and 2,4,5-T for control of unwanted clover in turf; WEEDANOL CYANOL crabgrass killer contains Potassium Cynate; WEEDANOL BRUSH KILLER, contains 2,4-D and 2,4,5-T for woody brush and poison ivy. Associated Chemists, Inc., North Collins, N. Y.

WEED-B-GON. Contains 2,4-D and 2,4,5-T. Kills weeds and woody plants, for use on lawns, pastures, borders of garden areas, fence rows. California Spray-Chemical Corp., Lucas and Ortho Way, Richmond, Calif.

2,4-D WEED KILLER. A spray, with 2,4-D Amine. Weed killer for lawns. Niagara Chemical Division, Middleport, N. Y.

WEEDMASTER 40 & 44. 4 lb. Amine, 3⅓ lb. Ester. For weed control on lawns, on corn, on wheat, etc. Michigan Chemical Corp., St. Louis, Mich.

WEED-NO-MORE. 14% Butyl Ester, 2,4-D. Weed killer for lawns and parkways. Acme Quality Paints Inc., 8250 St. Aubin, Detroit, Mich.

WEED-NO-MORE. Contains 2,4-D. Kills weeds without hurting common grasses. Sherwin Williams Co., P. O. Box 92, Milwaukee Junction, Detroit, Mich. (East of Miss. River and North of Mason-Dixon Line).

WEEDONE. Crabgrass killer containing potassium cyanate. Improved WEEDONE contains a low-volatile ester of 2,4-D and 2,4,5-T. For weed control. American Chemical Paint Co., Ambler, Pa.

WEEDOUT. Contains 2,4-D. Doggett, Pfeil Co., Springfield, N. J.

WEEDUST. Contains 2,4-D in powder form, for lawn weeds. American Chemical Paint Co., Ambler, Pa.

WILSON'S SELECT-O-WEED. Contains 2,4-D for control of broad leaf weeds. Andrew Wilson Inc., Springfield, N. J.

ZOTOX CRAB GRASS KILLER. Contains Arsenic Acid. Garden Products Co., 3246 S. Grand Blvd., St. Louis, Mo.

GUIDE

ROOT-PROMOTION CHEMICALS

GRAINO. Contains hormones, vitamins and activator. HORMEX. Benson-MacLean, Bridgeton, Ind.

HORMODIN. Avail. in three strengths. Contains indolbutyric acid. Merk & Co., Inc., Rahway, N. J.

HORMO-ROOT. Hortus Products Co., Rutherford, N. J.

PROPAGATING KIT. Kit contains root promoting hormones and LEAF GUARD to preserve foliage. Maka Prod., Dept. S-1, Sea Cliff, N. J.

ROOTONE. Contains naphthylacetamide, naphthylenaecetic acid and derivatives. American Chemical Paint Co., Ambler, Pa.

STIM-U-PLANT. Rooting medium for African violet leaves. Stim-U-Plant Lab. Co., Columbus 16, Ohio.

THOMPSON'S REE-ROOT Contains naphthalenaecetic. Increases rooting on cuttings. Thompson Chemicals Corp., 3600 Monon St., Los Angeles, Calif. and 3028 Locust St., St. Louis 3, Mo.

ANIMAL REPELLENTS

CHAPERONE. Liquid and powder. Three formulas for dogs, cats and rabbits. Sudbury Laboratory, Box 626, S. Sudbury, Mass.

DOGZIT. Contains bone oil, and protects shrubs against dog damage. Bonide Chemical Co., Utica 4, N. Y.

DOGZOFF. Dog repellent, 5% oil mustard. Bohlender Plant Chemicals, Inc., Tipp City, Ohio.

FUMEOGEN. A powdered dog and animal repellent. Rose Mfg. Co., Beacon, N. Y.

GOOD-RITE NO-NIB'L. Sodium Dimethyl Dithiocarbamate. A rabbit and deer repellant. B. F. Goodrich Chemical Co., 2060 E. Ninth St., Cleveland 15, Ohio.

HAMMOND'S DOG SKAT. Contains oils, Paradichlorobenzene etc. Repels cats dogs and some other animals. Hammond Paint & Chemical Co., Beacon, N. Y..

SCRAM DOG REPELLENT. Contains liquid animal bone oil. Keeps dogs away from shrubs, lawns, gardens etc. California Spray-Chemical Corp., Richmond, Calif.

ZIP. Contains Zinc Dithio Carbamate plus adhesive. To repel rabbits and deer; NO NIB'L. Contains Zinc Dithio Carbamate Amine, a rabbit repellent. Larvacide Products, Inc., 117 Liberty St., N. Y.

GROWTH REGULATING CHEMICALS

CROSS COUNTRY GROWTH RETARDANT. Contains Maleic Hydrazide. Sears Roebuck & Co., 925 So. Homan Ave., Chicago, Ill.

DORMATONE. Contains Methyl ester of naphthaleneacetic acid. To prevent sprouting of potatoes in storage. American Chemical Paint Co., Ambler, Pa.

GRO-NOT. Contains Maleic Hydrazide etc. Regulates growth of grass, shrubs etc. Nott Mfg. Co., Box 87, Mt. Vernon, N. Y.

KEM-KUT. Contains Maleic Hydrazide. For lawn edges. Kem-Kut, Dept F.G. 2, Harrison, N. J.

MH-40. Maleic Hydrazide. To inhibit grass in cemeteries and along highways. U. S. Rubber Co., Naugatuck Chemical Div., Naugatuck, Conn.

Prevent Dog Damage to Evergreens, Flowers, Gardens

LIQUID CHAPERONE keeps dogs and cats from ruining evergreens, lawn, garden, etc. Protects everything that grows, also outdoor furniture, porch, even garbage can. Harmless, economical. Just spray on—it won't wash off. A little goes a long way. Handy 8-oz. bottle now only **$1.** Quart **$3**, Gallon **$8.**

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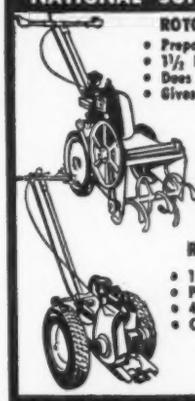

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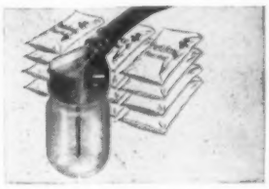
You apply ALL 14 ESSENTIAL FOOD ELEMENTS with one of these handy units *while you sprinkle your lawn or garden.*



FERTILEZE HAND SPRAY for gardens or lawns of 1,500 sq. ft. or less. Has 3-speed aluminum metering head, attaches to garden hose.

FERTILEZE FLOW MIXER feeds areas up to 20,000 sq. ft. with one filling. Remains at water tap; feeding is done with hose or any automatic sprinkler.

USE FERTILEZE FOR 30 DAYS
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Please send me ☐ the HAND SPRAY and 12 12-oz. bags of FERTILEZE ($9.95); ☐ the FLOW MIXER and 12 12-oz. bags of FERTILEZE ($22.95). If I am completely satisfied after 30 days, I shall pay the amount indicated plus postage. Otherwise I shall return everything and pay nothing.

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TAKES THE DRUDGERY OUT OF LAWN SPRINKLING

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Firmly grips rubber or plastic garden hose; follows hose around turns, even 90 degrees. Powerful . . . will pull a long hose. Shuts off wherever you fasten stop-plate on hose.

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GARDENERS' GUIDE

GROWTH REGULATING CHEMICALS Continued

PLANT MUTATION EXPERIMENT KIT. With Colchicine, in ready to use solution and salve. For stimulating mutations. Romaine B. Ware, Canby, Oregon.

SLO-GRO. Contains Maleic Hydrazide. Emery Radwany, Box 311, Milford, Conn.

STOP GRASS. Contains Maleic Hydrazide. Science Products Co., 1230 E. 63rd St., Chicago, Ill.

TRIMTONE. Contains Maleic Hydrazide. Slows grass growth along edges of flower beds, walks, etc. American Chemical Paint Co., Ambler, Pa.

NO-SEED (PARTHENOCARPIC) CHEMICALS

BERRY-SET For bigger strawberries, sweeter, longer bearing. Science Products Co., 1230 E. 63rd Street, Chicago, Ill.

FRUITONE. Contains Beta Naphthoxy Alpha Propionic Acid, Naphthalene Acetamide and Naphthalene Acetic Acid. For earlier crop and bigger tomatoes. American Chemical Paint Co., Ambler, Pa.

HORMEX. Contains hormones, vitamins and activator. Benson-Maclean, Bridgeton, Ind.

NO-SEED BLOSSOM-SET. Sets fruit on tomatoes, earlier ripening, bigger yield, seedless fruits. Science Products Co., 1230 E. 63rd St., Chicago, Ill.

THOMPSON'S TOMATO FIX. Contains Parachlorophenoxyacetic acid. For fruit setting on tomaties. Thompson Chemicals Corp., 3600 Monon St., Los Angeles 27, Calif.

RODENT KILLERS

BLACK FLAG WARFARIN RAT & MOUSE KILLER. Boyle-Midway, Inc., 22 E. 40 St., N. Y.

CCC RAT KILLER. Contains red squill extract. Carbola Chemical Co. Inc., Natural Bridge, N. Y.

CYANOGAS. Calcium Cyanide for insect and rodent control, also for ants and moles. American Cyanamid Co., 30 Rockefeller Plaza, New York.

FORCE'S MOLE KILLER. Poison pellets to be placed in the visible runways. Also Gopher Killer; Mouse Seed; Poison Wheat; Ro-Dex (for rats, gophers, pocket gophers and ground squirrels). Carajon Chemical Co., Inc., Fremont, Michigan.

G&O ANTI MOLE-MOUSE-RAT GRAIN. A dust containing Corrosive Sublimate. Goulard & Olena Inc., Skillman, N. J.

MAGITRACK MOUSE DUSTER. Contain 50% DDT for control and extermination of mouse infestation. Lethelin Products Co., Inc., 15 Macquesten Parkway, South, Mount Vernon, N. Y. (East of Miss. River distribution).

MOLITE GAS CARTRIDGE. For mole and rodent control. Garden Products Co., 3246 S. Grand Blvd., St. Louis, Mo.

MOLOGEN. For control of moles in lawns and gardens. Rose Mfg. Co., Beacon, N. Y.

RAT-B-GON. Rat and mice bait, contains Warfarin. California Spray-Chemical Corp., Lucas & Ortho Way, Richmond, Calif.

RODENT CONTROLS: BLUE DEATH RAT POISON; FATAL WARFARIN POWDER; SANSEED MOUSE SEED; TOPSOL; RED SQUILL; RAT BAITS. Bonide Chemical Co., Utica 4, N. Y.

RODENT & MOLE POISON. RAT-NOTS, MOUSE-NOTS, SCA-RAT, MOLE-NOTS, KIL-MICE, RAT-TU. Nott Mfg. Co., Box 87, Mt. Vernon, N. Y.

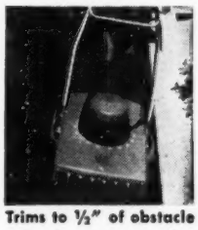
ROUGH AND READY. Mouse Mix with Warfarin for destruction of mice; Rat

IF YOU THINK IT'S WORK TO MOW THE LAWN, HERE IS GOOD NEWS FOR YOU!

There's a new lawn mower on the market that is *easy* to run. You can walk as fast or as slow as you wish while you're mowing. It's a power mower, but it's quiet and clean. You can *relax* as you mow the lawn.

Cuts weeds 2 feet high

You'll like it for two reasons. First, you can handle it safely and easily. Second, it uses a new cutting system that cuts weeds as well as grass in one time over. It won't jam on twigs or leaves either and trims within ½" of trees, walks, etc. It handles unusually well on slopes and terraces.



Trims to ½" of obstacle

It costs *much* less than most power mowers (about $60), and runs for 2c an hour. It seems to be the best mower for lawns of an acre or less.

To learn more about it, send a postcard to Huffy Mower, 111 Gilbert Ave., Dayton 1, Ohio and ask for, "How the Quiet, Lightweight Huffy makes your lawn easier to mow."

MARCH Automatic RAINMAKER

Attaches to ordinary garden hose. Water falls like rain over 1800 square foot area. No overlapping. No dry spots. Oscillator tube fully adjustable for coverage up to, but not on sidewalks, house; or for restricted areas. Hydraulic motor operates positively on pressures as low as 20 lbs. All moving parts are of brass — will not rust. 4 wheel chassis for easy mobility. The finest sprinkler available for the money. Sold on money-back guarantee. Shipped prepaid cash with order.

Model 4900-6, 6 ft. length
1800 sq. ft. coverage.... $45.00

OTHER MODELS AVAILABLE

Model 4900-3, 3 ft. length
1200 sq. ft. coverage.... $35.00

Model 4900-10, 10 ft. length
2400 sq. ft. coverage.... $55.00

MARCH AUTOMATIC IRRIGATION CO.
Box 42-F Muskegon, Michigan

Don't Dig! Don't Chop! Don't Blast! Use "Magic"

Save money—time—labor! Just insert the new chemical compound — "MAGIC STUMP REMOVER"—to any ugly tree stumps—old or new. Decomposes fibres down to root tips for easy removal. (8-oz. size enough for one stump.)

SEND NO MONEY

Order now—pay postman $1.50 for 8-oz. can—$2.50 for 16-oz. can—$5.00 for 3-lb can plus postage. Or send cash with your order for postpaid delivery.

Satisfaction Guaranteed

H. D. CAMPBELL CO. Rochelle 23, Illinois

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GARDEN TRACTOR

1½ & 3 h.p. Models

NO BELTS, NO CHAINS, NO PULLEYS
THE TOOL FOR EVERY USE!

Geared to the job and ruggedly built for long life, the LELAND "Terra-Tiller" is unquestionably the best garden tractor in the field! The "Terra-Tiller" has big tractor power at garden tractor economy, solid pulling power, wide-angle traction and positive clutch action.

IMPLEMENTS AND ACCESSORIES

- Cultivator
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Work Less—Grow More!
Merry Tiller

- Handy rotary tiller and tractor.
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- Weeds up close to plants.
- Tines are fully guaranteed.

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1063 33rd Ave. S. E. Minneapolis, Minnesota

GARDENERS' GUIDE

Bait with red squill against rats; Concentrated Warfarin for both rats and mice. J. T. Eaton & Co., 1106 Lakeview Rd., Cleveland 8, Ohio.

TAT-MOGO. Mole and gopher control. O. E. Linck Co., Inc., Route Six & Valley Rd., Clifton, N. J.

ADHESIVES

ACME STOP. A gummy sticky mass for use as a band around trees to trap climbing insects, ants, caterpillers, cankerworm etc. Acme Quality Paints Inc., 8250 St. Aubin, Detroit, Mich.

PLANT PLATE WEATHERIZER. An adhesive to add to water or oil sprays to keep them on plants for long periods of time regardless of weather conditions. Milligan Bro. System, Jefferson, Iowa.

TREE TANGLEFOOT. Sticky compound, with castor oil, natural gum resins, vegetable wax. To band trees for protection against climbing insects. The Tanglefoot Co., 314 Straight Ave. S.W., Grand Rapids 4, Mich.

T-H STICKER PURPOSE. To be added to insecticide and fungicide sprays to make them longer lasting by preventing material being washed or blown from plant. Thompsen-Hayward Chem. Co., Kansas City, Mo.

OTHER GARDEN CHEMICALS

BLOOM MAGIC. Changes color of cut flowers at user's will. Benson-Maclean, Bridgeton, Ind.

CUPRINOL. A spray which prevents wood against decay or insect attack. Contains zinc or copper Nephthenate. Cuprinol Division, Darworth Inc., Simsbury, Conn.

F&B ROOTICATE. Destroys and prevents tree and shrub root growth in sewer pipes, storm drains etc. Faesy & Besthoff Inc., 325 Spring St., N. Y. (All states east of Miss. River, also Minn., Iowa, Miss., Ark., La.).

G&O CROW-PHEASANT REPELLENT. Goulard & Olena, Inc., Skillman, N. J.

HAMMOND'S TREE WOUND PAINT. Hammond Paint & Chemical Co., Beacon, N. Y.

HORMEX. Controls dropping of leaves, fruit, blossoms. Benson-Maclean, Bridgeton, Ind.

LEGUME-AID. Seed inoculant for peas, beans, lima beans, alfalfa, clovers, soybeans and all legumes. Agricultural Laboratories, Inc., Columbus 16, Ohio.

MILLER'S COMPOST MAKER. An agricultural chemical for the composting of organic matter and the addition of essential and minor elements. Miller Products Co., Ft. of S.W. Caruthers, Portland 1, Oregon.

ORTHO LAWN GROOM. Contains an insecticide, weed killer and fertilizer. Kills lawn insects, broad-leaved weeds, and feeds lawns in one easy application. California Spray-Chemical Corp., Lucas & Ortho Way, Richmond, Calif.

TRANSPLATONE. Contains Naphthylacetamide. Reduces wilt and loss when transplanting vegetables, flowers and shrubs. American Chemical Paint Co., Ambler, Pa.

VIOL-OGEN KIT. All-in-one kit for African Violets, containing rooting medium, potting mixture, plant food and plant spray. Rose Mfg. Co., Beacon, N. Y.

- Chemical fertilizers and other plant foods were covered in the directory appearing in the March FLOWER GROWER.

TOPS IN TOOLS

"DYNAMIC"
GRASS SHEARS

The finest squeeze-action grass shears ever made! Tempered cutlery steel blades have new flex-action to work smoother, cut the toughest grass faster. All fittings plated. Streamlined, comfortably-shaped handles finished in sparkling, goldenrod yellow. See the new "Dynamic" at your hometown hardware store. True Temper Corporation, Cleveland 15, Ohio.

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FOR OVER 100 YEARS MAKERS OF FINE TOOLS, FISHING RODS, GOLF SHAFTS

NEW! The M-E MUSTANG!

Small in Size and Price —
But MAN! *What a Job It Does!*

Here's a REAL Rotary Tiller — greatest ever made for home gardeners! Tills, cultivates, weeds, mulches — easy to handle in small plots, corners, close to shrubs. 2½ HP engine, M-E's famous universal non-winding tines (guaranteed against breakage). Attachments available soon. See your M-E Dealer for demonstration and full details today! Or write M-E, 317 Marion St., South Milwaukee, Wis.

REBUILDS SOIL NATURE'S WAY
M-E MILWAUKEE ROTARY TILLERS
Milwaukee Equipment Mfg. Co., So. Milwaukee, Wis.

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THE WORLD'S FINEST LAWN and GARDEN EDGER

UNCONDITIONALLY GUARANTEED

The finest tool for all purpose lawn and garden edging—edges along sidewalks, against walls, fences, around flower beds & stepping stones ...cuts either way—will not clog...self-sharpening. $4.95

AT GARDEN SUPPLY HARDWARE and DEPARTMENT STORES

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FOR HOME AND GARDEN

SPECIAL OFFER $17.95

Keeps your tools handy while you work.

6"x24" tool cylinder of 24 gauge steel, handsomely enameled in orange and green. Semi-pneumatic rubber tires. Elastic band for small tools and gloves. Adjustable clamp secures bucket or box to Kadi. $17.95 postpaid. Bucket and tools not included. Fully guaranteed. Order direct from this ad, using coupon below. Send check or money order, or write for Free Folder. Prompt delivery. Supply limited. Order now.

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The Garden Clubs

By MARGET COCHRANE COLE

MAY finds garden club members in every part of the country where bulbs, shrubs and trees are in bloom welcoming visitors to their homes and gardens. Many gardens are opened officially to large numbers of people who make long pilgrimages to see them. Houses are charmingly decorated with flower arrangements and gardens groomed to perfection as they can be only at this season. Where admissions are collected, the funds are donated to some worthy cause, often civic improvement. This same practice is followed in England and Scotland under the direction of the National Trust. There also, in the case of historic old estates, the admissions often are used to cover maintenance costs. Indeed, many great castles and manor houses are preserved entirely by means of this pilgrimage plan. From May 7 to 13, a particularly novel garden pilgrimage and cruise will be made along the west coast of Scotland.

"Open-house" days are here in Virginia gardens, which are patterned in many respects after these fine old English and Scottish gardens. From April 25 to May 2, houses on the Potomac, James and York rivers are open to the public. In every town where gardens will be on display, information centers for the convenience of visitors have been set up.

A number of superb historical gardens, restored through the efforts of the state garden club, are among the principal delights to be viewed in Virginia. One fine example is Gunstan Hall on the Potomac. Built by George Mason in the 18th century, it has a garden of boxwood so high it dwarfs visitors. Other historical gardens are Kenmore, Stratford, the birthplace of Woodrow Wilson at Staunton, the Barter Theater Players Home at Abingdon, Thomas Jefferson's Monticello and Bruton Parish at Williamsburg.▶

Garden Club Forum

Conducted by VICTOR H. RIES

EXTENSION FLORICULTURIST, OHIO STATE UNIVERSITY, COLUMBUS, OHIO

THE secretary of a garden club asked me what benefits a club receives from being federated with others. "We belong to our state federation and see no material benefits. If individual clubs aren't helped, of what good are the federations? Do they accomplish things of which we aren't aware?"

I realized long ago in my work for the Agricultural Extension Service in Ohio that those clubs that hold to themselves and do not belong to county and state organizations are the ones that show little progress and development. It is through contact with other gardeners and clubs that any such group is stimulated to make its organization a worthwhile one in the life of the community. Any state federation of garden clubs has much to offer its individual member clubs if they participate in state activities and ask for the help and services to which they are entitled. Of course, some state federations have more active programs and do more for their members than others.

Through help in developing programs, flower shows, community and conservation projects and junior garden club work, your members will receive more than full value for the cost of their state membership. Why don't you ask your state garden club president to have one of the state officers meet with your group and explain in detail the advantages of membership?

Spring Garden Clinic

Every gardener has questions and problems. Why not hold a public meeting with a panel of two or three experts to answer questions? Have all questions written out and read by the chairman. As some of you know, I like to hold such clinics after my garden talks.

Garden Events

MAY 2-3, RICHMOND, CALIF.—Spring Flower Show, Garden Section of the Richmond Women's City Club, Civic Memorial Auditorium.

MAY 6-9, VICTORIA, B. C., CANADA—Spring Garden Festival, Victoria Horticultural Society.

MAY 7-12, PHILADELPHIA, PA.—House and Garden Tour, The Garden Club Federation of Pennsylvania.

MAY 9, SIOUX CITY, IOWA—African Violet Show, Siouxland African Violet Society, Art Center.

MAY 9-10, TACOMA, WASH.—Rhododendron Show, The Tacoma Rhododendron Society, Winthrop Motors showroom.

MAY 10-16, SPOKANE, WASH.—Lilac Festival, Lilac Festival Association.

MAY 14-17, KENTUCKY—Open House in Kentucky, Garden Club of Kentucky.

Since dates are subject to change, we suggest you check with garden clubs or societies before traveling to out-of-town meetings or shows.

Questions and Answers

• *Inquiries sent to this department accompanied by a stamped, self-addressed envelope will be either printed or answered by our staff.*

Crassandra undulaefolia

Would Crassandra undulaefolia make a good house plant?—MRS. MARVIN A. GILLEY *(Me.)*

Reports indicate that Crassandra undulaefolia would make a successful house plant. It is raised from seed and cuttings. The seed is best sown in early spring in a temperature of 70° to 73°. Germination is generally slow but some may sprout in 7 to 10 days; others follow for a month after. For potting, use equal parts soil and leafmold with rotted manure and coarse sand added.

Lilac Borers

What is the best way to prevent borers from ruining my lilacs?—DAVID D. DAPSON *(N.Y.)*

Spraying lilacs with chlordane in May will help kill the young borers before they enter the stem. After this, spraying is useless. Where you see the holes in the stem, which are indications of the borer, inject some DDT and plug the holes. This will kill the borer inside.

Colored Tuberoses

I have planted white tuberoses for several years. Are there any other colors offered?—MRS. LOUIS YOUNG *(Mo.)*

As far as can be determined, no other tuberoses other than the white are offered by the trade.

Orange Blossoms

I have an orange tree in my living room which I grew from seed. It is now five years old. Can I expect this tree to bear blossoms?—MRS. R. W. WHALEY *(Ind.)*

There is no difficulty in growing citrus plants from seed, but it's sometimes difficult to get them to bloom. One of the reasons for non-blooming is that the plant is fed and watered throughout the year when at some time, say late summer, it should be given very little water and no fertilizer. Also, citrus fruits, like all commercial fruits, are specific varieties budded on an understock. In the South these will both bloom and fruit, but it is difficult to do this in the house.

Cyclamen Propagation

Last Christmas I received a cyclamen plant and attempted to start new plants in various ways but with no success. How are cyclamen propagated?—MRS. FRED SHEARER *(Iowa)*

Cyclamen plants are started from seed, not cuttings. Since the plants require a year to reach flowering size, the seeds are started in August of the year previous to the time they are wanted. It is sometimes possible to save the tuber of the old plant. When all flowering has ceased, ease up on watering and when all leaves have turned yellow the tuber can be removed and stored in moist peat. It is then potted up in August and started into growth again.

Clematis Transplanting

In the spring of 1944 I planted a Clematis jackmani but now find it too close to another plant. Can it be transplanted?—MRS. N. O. LARSEN *(N.D.)*

Transplanting a nine-year-old clematis involves considerable risk. The plant should be moved just as spring growth begins, even slightly before. Cut the plant back to within a foot of the ground and dig a large ball, taking as many roots as possible. Keep all exposed roots covered with moist burlap and plant as soon as possible. Before the hole is filled, water the plant with liquid fertilizer. Keep the plant well watered throughout the summer.

Hardy Amaryllis Care

I have two clumps of hardy amaryllis. The first year they were full of bloom, but last year all they showed was healthy foliage. Should I move them to another location?—MRS. M. L. LUDWICK *(Pa.)*

Do not transplant the hardy amaryllis. Once established it will bloom again. It is not uncommon for this bulb to skip a year in blooming.

Devil's Tongue Odor

I have a blooming plant of Amorphophallus rivieri, devil's tongue, and the odor is quite offensive. Is there any chemical or other means that may be employed

Charlotte Rose Society

• Rosarians in the city of Charlotte, North Carolina, have banded together to form the Charlotte Rose Society. The organization's first officers, elected last year, are as follows: Alton B. Smith, president; Mrs. E. M. Richey, vice-president; Mrs. William McMasters, secretary; and A. C. Thomas, treasurer. The group, which already has some 60 members, is affiliated with the American Rose Society.

WHY THE IRIS IS THE IDEAL FLOWER . . . FOR YOUR GARDEN

1. Gorgeous blooms year after year from perennial clumps.
2. Hardy, drought and pest resistant; little care needed.
3. Thrives in sand, loam or clay.
4. Rapid Increase—buy one plant, you soon have a heavy-blooming clump.

WHY YOU SHOULD Get Your Iris From The . . . RAINBOW GARDENS

1. Only Rainbow Gardens has every type of Iris and every Rainbow color.
2. World's most complete collection—600 varieties for year-round bloom.
3. Latest creations & popular favorites.
4. Rare & unusual novelties & oddities from the four corners of the earth.
5. Hardy, mountain-grown stock.
6. Delighted customers in every state.
7. Large rhizomes; pre-formed flower buds.
8. Bargain collections in all types of Iris; FREE Gifts and Premiums.

WHY YOU SHOULD Send 25¢ for Catalog & Guidebook

1. Only catalog showing many rare & new IRIS in FULL NATURAL COLOR.
2. The only HOW-TO-DO-IT Iris Catalog.
3. TELLS YOU how to grow 20 types of Iris & use each in your garden, or in your home.
4. SHOWS YOU how to select varieties by color, season, height, etc.
5. You also receive COMPLIMENTARY CREDIT CERTIFICATE worth 50¢.

SEND AD AND 25¢ TODAY TO
Lloyd Austin's
RAINBOW Hybridizing GARDENS
Dept. F-5, Placerville, California

PYRAMID STRAWBERRY GARDEN

Adds interest and beauty to your garden. Produces a bigger and better crop of berries. 5 ft. size just right for 50 plants, complete. Only $6.95 ppd.

SPECIAL! 5 ft. Aluminum Pyramid Garden with 50 SUPERFECTION everbearing strawberry plants complete Only $8.95 ppd.

GROW IN YOUR OWN YARD!

Red Rich 5 STAR EVERBEARING STRAWBERRY

★ EVERBEARING ★ FINEST FLAVOR
★ ENORMOUS SIZE ★ HEAVY YIELDING
★ IDEAL FOR FREEZING

ORDER NOW! Red Rich plants are still limited. Don't be disappointed like so many people were last season.

RED RICH PRICES set by the patent holder.
12 plants . . . $2.95 25 plants . . . $5.00
50 plants . . . $8.50 · 100 plants . . . $15.00
All plants guaranteed and prepaid!

MAIL THIS COUPON WITH CHECK OR M. O. TODAY!

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Please send me the following, postpaid:
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ILGENFRITZ ROSES

Are Better than ever this year

THREE OUTSTANDING ALL-AMERICAN BEAUTIES

PEACE (Pat. 591)
Tremendous pink and yellow ..... **$2.50 ea.**

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Magnificent deep red ..... **$2.00 ea.**

FORTY-NINER (Pat. 792)
Striking yellow and red bi-color ..... **$2.25 ea.**

All three of the above only $5.95 postpaid

SIX FAVORITE EVERBLOOMING ROSES

FRAU K. DRUSCHKI .....White
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Write for our large new "Garden Styles" for 53

ILGENFRITZ NURSERIES, INC.
THE MONROE NURSERY Dept. F MONROE, MICH.

☆ GLADIOLUS ☆

Lets have a garden of glads this summer. We have the **world's** best. Here is my most popular item.

#1 Star collection
unlabelled bulbs—40 different varieties in the whole color range.
Large size $6.00 per 100
and with each 100 we give **one free** labeled bulb worth $1.00.
50 for $3.00.

The same in medium size
$4.00 per 100. 50 for $2.00.

I guarantee there is no other unlabelled collection to equal this at the price.

Also I have a **Deluxe collection** with many new varieties at
$12.00 per 100. 50 for $6.00.

Send 10 cents for the finest and most helpful glad catalog published.

MAPLE SYRUP, the finest you ever ate.
$6 per gallon, f.o.b.

CHAMPLAIN VIEW GARDENS
ELMER GOVE
Box 45 Burlington, Vermont

4 pkgs. $1 ppd. (96 markers)
Ask your dealer or write direct!
DEPT. A, WESTERN GROWERS SUPPLY, 91 N. DAISY, PASADENA, CALIF.

25 PERENNIAL PLANTS
Only $2.00 Postpaid
Strong, field grown—Blooming size.
Following varieties:
Carnation Grenadin, Dianthus, Pyrethrum, Canterbury Bells, Statice, Baby's Breath.
SATISFACTION GUARANTEED
NOVOTNY GARDENS Osage 3, Iowa

to counteract this odor?—ALBERT H. MYERS *(Wis.)*

Although there is no record of any chemical being used against the odor of devil's tongue, it is possible that a material like flower wax, spray lacquer or even flower perfume could be used. They are harmless to the plant.

Apple Seedlings

I have sprouted some apple seeds and the little trees are now about 3 inches tall. What should I do to keep them growing as they are from an excellent variety?—MRS. EVELYN HYNSON *(Va.)*

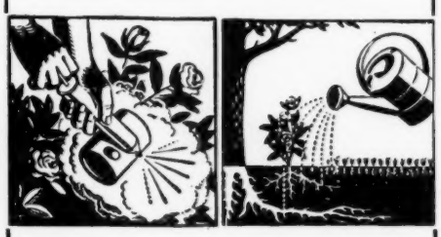
Although your apple seeds came from a good variety, your little trees will hardly amount to more than just a wild apple of inferior quality. Apple seedlings are grown in the nursery as understock. Standard varieties are then grafted or budded on top. Although you would use your garden space to much better advantage with one of the well-known grafted varieties, you can grow your seedlings on by planting them out after danger of frost and growing on like any small shrub or tree.

Mimosa Cuttings

Is it possible to take hardwood cuttings of mimosa (albizzia) in the same manner as was described in the November 1952 FLOWER GROWER*?*—VINCENT SMITH *(N. J.)*

Albizzia is best propagated from half-ripe cuttings taken in July or early August. The new side shoots coming from the main stem are removed with a piece of the older stem and inserted in moist sand in a coldframe and shaded from the sun until rooted.

Improved Miracle-Gro



• Every nutrient known to be needed by plants is now included in Miracle-Gro, a concentrated fertilizer which is completely soluble in water. The improved formula contains a substantial amount of magnesium, which may be leached from the soil during heavy rains, plus all other trace elements vital to plant health. A special penetrant or wetting agent makes the fertilizer go farther by spreading it over the leaves in foliage feeding or by saturating the soil to a greater depth in regular applications.

FIRST SPECIAL OFFER
Barnhaven's world famous, hardy
SILVER-DOLLAR PRIMROSES

Individual blooms 1½-2½" across at spring flowering peak. Polyanthus as pictured. Every shade in following color series: Grand Canyon, Indian Reds, Desert Sunset, Victorian, Pastels, Harvest Yellows, Winter White. Assortments to order.

Field plant size: 12/$3.75; 25/$6.75, postpaid Transplants, heavily rooted: 12/$2.15; 50/$6.50, postpaid.

Marine Blues: True navy, indigo, medium and sky blue shades. Field plant size: 12/$4.50; 25/$8, postpaid. Transplants, heavily rooted: 12/$2.50; 25/$4.75, postpaid.

UNUSUAL BOOK-CATALOG (Free) illustrating these and many other hardy Primroses from all parts of the world.

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Get a Demonstration See It Work

Let this versatile, powerful, dependable, Beaver 6 h.p. Riding Tractor do your hard work! For just a few cents an hour operating cost, it does jobs other small tractors can't tackle. Complete line of implements to plow, harrow, cultivate, rake, grade, roll, mow lawns and fields, plow snow, saw wood, generate electricity, haul heavy loads, etc. Thousands of enthusiastic owners.

See your dealer or write for literature and dealer's name.

BEAVER TRACTOR CO., INC.
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"HIGH NITROGEN"
MICHIGAN PEAT
now available in ½ peck and peck bags for African Violets & House plants. Get more abundant blooms, ask your dealer or Michigan Peat, Inc., 267 5th Ave., N. Y. C.

IRIS
Price list on request
BROOKSIDE GARDENS
Route 4 Walla Walla, Wash.

Mecca for Daylily Fans

[FROM PAGE 46] outline the terrace. Shade is provided by a native birch and a willow oak, with Magnolia grandiflora and sweet gum trees nearby. A wall of Chinese junipers, again with a frontal border of French lilacs, assures privacy from the formal garden behind, while a border of Korean box screens the driveway on the north. Four varieties of Japanese yews neatly edged with Korean box separate the garden from the house.

Mr. Rice has developed his extensive gardens with an eye to providing season-long landscape color pictures. Spring-flowering bulbs, annuals, perennials, iris (all the American Iris Society Symposium varieties), peonies, regal lilies, azaleas, roses, lilacs, Magnolia soulangeana, evergreens, flowering trees—and daylilies—all combine to produce bright fragrant beauty from spring to fall.

The story of the development of the gardens is an interesting one. The year 1930 marked the beginning. At that time the lily pool was constructed and first plantings made in the 30- × 45-foot plot which is now the formal garden. The same year, an adjoining 50- × 100-foot lot was purchased, and promptly converted into a tennis court for the four Rice children and their friends.

The year 1937 saw tennis days over for the young Rices and the court site transformed into a planted area. Soon flower borders bloomed like bright ribbons along the high fence, while the grassy center area accommodated social events. The war years brought still another change to this plot—the transformation from a flower to a vegetable economy. The planted borders were widened to 6 feet, and four 11- × 31-foot beds were made in the lawn area—all planted with vegetables. At the war's end, flowers took over once again, with hemerocallis outstripping the others until the one-time tennis court became the delightful hemerocallis garden that it now is.

The triumph of the daylilies is itself an intriguing little story. Six hemerocallis plants purchased in 1938 were Mr. Rice's oh-so-innocent start. He immediately approved their performance and during the war years, managed to add a few more choice varieties, squeezing them in where vegetables agreed to make room. And he found himself becoming more and more impressed with the garden value of this flower—its free-flowering beauty and amazing adaptability. The war's end, which meant the end also of the vegetables, saw a big increase in daylily plantings and the real start of the hemerocallis garden. Every year since then, Mr. Rice has added some 50 to 75 choice new plants, regularly discarding many others, until today the Rice hemerocallis collection is one of genuine distinction attracting widespread interest.▶

An "Orchid" to a Rosarian

Honored guests at a recent dinner given by the Chicago Regional Rose Society, District 3, were Mr. and Mrs. C. Eugene Pfister. Mr. Pfister, who is president of the American Rose Society and is well known to FLOWER GROWER readers for his annual January review of the new rose varieties, displays the new drapery material patterned with New Yorker roses that was described in the March issue. Seated at the Pfisters' right is Anthony Trenning, a former president of the regional rose society.

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We Raise Bamboo

[FROM PAGE 53] bamboo sprouts. We were asked to send some culm sheath specimens, which we did. Back came the good news that our sprouts were exactly the same delicacy found in Chinese restaurants and available in cans from groceries which feature exotic foods.

A recent letter from the Department included several recipes for cooking bamboo shoots. In every case, they must be parboiled 15 minutes and salt must be added near the end of the boiling period. Here are a few sample recipes:

Sautéed Bamboo

2 tablespoons butter
3 cups sliced parboiled bamboo
1 teaspoon salt
pepper

Melt butter in a frying pan, add bamboo and sauté for about five minutes until slightly brown. Stir occasionally. Add seasoning and serve on hot cooked rice with a cheese sauce.

Scalloped Bamboo

3 cups sliced parboiled bamboo
4 tablespoons butter
4 tablespoons flour
2 cups milk
1 teaspoon salt
4 tablespoons grated cheese
paprika

Place bamboo in a greased shallow baking dish. Prepare a sauce with butter, flour, milk and salt, blend in cheese. Pour this over bamboo and bake in a 350° F. oven for 30 minutes. Serve with paprika sprinkled over the top.

Bamboo à la Creole

2 lbs. beefsteak about 1½ inches thick
3 tablespoons flour
2 tablespoons fat
2 small onions, shredded
2 cups tomato
2 cups sliced parboiled bamboo
1½ teaspoons salt
1 teaspoon pepper
parsley

Cut steak into ½-inch cubes and roll in flour. Heat fat in frying pan, add steak and onions, cook, stirring occasionally, until brown. Add tomato, bamboo and seasoning, pour into casserole. Cover and cook in 350° F. oven for about an hour. Sprinkle finely chopped parsley over the top and serve at once. Boiled rice makes an excellent companion dish.▶

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100 Favorite Iris

[FROM PAGE 48] in ever increasing numbers. New ones come but most of them soon pass out of the picture. A few remain. Chasing novelties is an entrancing occupation—and an expensive one! Fanciers will find the best of the newer varieties in the annual awards list of the society. But for the average gardener who wants good iris that will grow well and can be bought at a moderate price, I strongly recommend the symposium varieties listed on page 49. With the exception of CHERIE (a newer "pink"), most of the first 25 on the list can be purchased for $1.00 each or less; none of them costs over $3.00 each.

The 1952 Iris Symposium Iris Listed by Color

Varieties, listed under each color, appear in order of popularity.

WHITE. BLUE-WHITE SELF (entire flower one color)—Snow Flurry. WHITE SELF — New Snow, Lady Boscawen, Katherine Fay, Matterhorn, Spanish Peaks, Priscilla. WARM WHITE SELF—Gudrun, Winter Carnival, Sharkskin, Snow Carnival, Arctic, The Capitol.

BLUE. LIGHT BLUE SELF—Helen Mcgregor, Azure Skies, Sylvia Murray, Gloriole, Distance, Cloud Castle, Shining Waters. MEDIUM BLUE SELF—Great Lakes, Blue Rhythm, Chivalry, The Admiral, Missouri, Blue Valley, Sierra Blue, Bandmaster. DARK BLUE SELF—Sable, Black Forest. BLUE BICOLOR—Lothario.

YELLOW and CREAM. CREAM LIGHT YELLOW—Amandine, Desert Song, Elsa Sass, Moonlight Madonna, Golden Fleece, Goldbeater. MEDIUM YELLOW—Berkeley Gold, Cloth of Gold, Treasure Island, Spun Gold, Ming Yellow, Golden Majesty, Golden Treasure. ORANGE-YELLOW—Ola Kala, Rocket, Zantha.

RED. RED SELF—Solid Mahogany, Ranger, The Red Douglas, Garden Glory, Christabel.

LAVENDER and PINK. LAVENDER-PINK SELF—Chantilly, Dreamcastle, Lynn Langford, Harriet Thoreau, Fantasy, Miss California. TANGERINE BEARDED PINK—Pink Cameo, Cherie, Pink Formal.

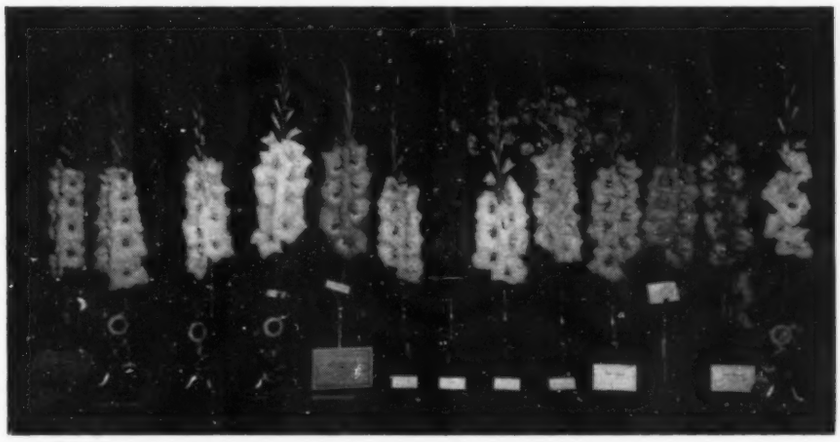
PLICATA. BLUE PLICATA—Blue Shimmer. PURPLE PLICATA—Minnie Colquitt, Los Angeles. YELLOW PLICATA—Tiffanja, Tiffany, Firecracker.

VIOLET. LIGHT TO MEDIUM VIOLET SELF—Violet Symphony. BLUE-VIOLET SELF—Vatican Purple, Pierre Menard. RED-VIOLET SELF—Master Charles.

BICOLOR and BITONE. VARIEGATA—City of Lincoln, Mexico, Gypsy. AMOENA NEGLECTA (white standards and colored falls)—Wabash, Amigo, Extravaganza. ONCOBREDS (oncocyclus and tall bearded crosses)—Lady Mohr, Elmohr, Ormohr. YELLOW-WHITE BICOLOR—Pinnacle, Fair Elaine.

BLEND. LIGHT BLEND, YELLOW PREDOMINATING—Cascade Splendor, Chamois, Daybreak, Old Parchment, Golden Russet. MEDIUM TO DARK BLEND, BROWN PREDOMINATING—Bryce Canyon, Prairie Sunset, Grand Canyon, Argus Pheasant, Casa Morena, Tobacco Road, Arab Chief, Louvois, Pretty Quadroon. ROSE BLEND—Mulberry Rose, China Maid, Three Oaks, Lighthouse.▶

Winners in Australia Gladiolus Show



• The winning spikes of all those exhibited in the Australian Gladiolus Society's show last November are, left to right: Blomfontein, Golden Beauty, Reg Leahy, Strathnaver, Gay Molyneaux, Blomfontein, Firebrand, Sylvan Flash, Quiberon, Tunia's Masterpiece, seedling, Molyneaux Sunset, Margaret Beaton. This unusual photograph came to us from J. H. Odell of the New England Gladiolus Society who received it from W. J. Foster, secretary of the South Australian Floricultural Society.

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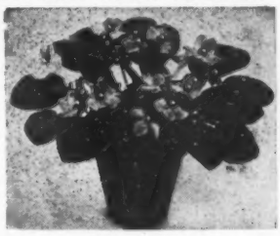

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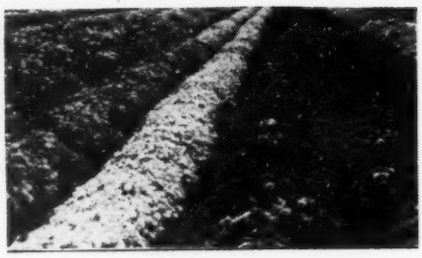

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Peonies for Cutting

[From page 45] the list as one of the first double whites to bloom and a best as a cut flower. Other splendid white and blush varieties: Alice Harding, Avalanche, Baroness Schroeder, Dorothy J, Elsa Sass, Frances Willard, James Kelway, Kelways Glorious, La Lorraine, Mattie Lafuze, Mrs. Edward Harding, Victory and the new introduction from Canada Ann Cousins. For a brilliant Memorial Day arrangement, combine some of these white peonies with bright red pyrethrum and blue iris.

Before concluding our discussion of doubles, there is one general rule I'd like to suggest for arranging them. For happiest effects, use all one variety (alone or combined with other spring flowers as suggested previously). Or, if you prefer, use two varieties of contrasting color but of exactly the same type bloom. For example, you could combine two rose-type doubles or two bomb types, one variety a delicate pink perhaps, the other a lovely red.

Single and Japanese Varieties

Next we come to the single and Japanese peonies, whose exquisite grace makes them particularly delightful subjects for arrangements. Single peonies, you will remember, usually have one or two rows of large petals with a handsome central cluster of yellow stamens. The Japanese type is similar in form but has a larger cluster of modified stamens—technically staminodes—which look like thinly shredded petals.

The best of the single whites for cutting are Krinkled White, Le Jour and Pico. The latter captured top class honors at both the Lake Mohawk and Minneapolis peony shows last year. Excellent pinks: Angelus, Helen L'Etincelante and Sea Shell. Reds: Arcturus, Flanders Fields, Imperial Red, Kickapoo, Mano' War, President Lincoln and Red Warrior.

White Japanese varieties your garden should include for cutting are Isani Gidui, Moon of Nippon, Shaylor's Sunburst and Toro-no-maki. Pinks: Amano-sode, Nippon Gold, Prairie Afire, Sagoroma, Tomate boku and the Westerner. Reds: Dignity, Charm, Hari-ai-nin, Nippon Brilliant and Onahama.

Japs and singles are usually most attractive in arrangements when colors—as well as varieties—are not mixed. For a distinctive arrangement in a low bowl, take seven or so blooms, place one high in the center and then build down on either side with the final flower quite low. For maximum effectiveness, use a wall or mirror as background. (See photograph on page 45.) Another way to display these graceful peonies is to float

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a lone bloom in a flat bowl and use on a coffee table or as a centerpiece on your dinner table. Japanese and single peonies have excellent lasting qualities. With proper handling they keep a week or more. These peonies, incidentally, are also good for cemetery use as they are quite resistant to wind, rain and hot sun.

Now a few tips on how to cut and handle peonies to insure maximum lasting qualities. Cut the blooms just as they begin to open, singles while they're still in fairly tight bud and doubles in the soft bud stage. Sever the stems slant-wise in order to provide maximum absorbing surface. Also, for the health of your plant, remember to leave at least two sets of leaves on each growing stem and at least one third of the blooms on each bush. After cutting, strip off all foliage from cut stem except the two top leaves. Excess foliage is unattractive and uses water that the bloom needs. Place the blooms as soon as possible in a deep container of water large enough to accommodate them easily.

If you have a cooler, you can "cold-storage" your cut peonies, if you like, for a month or so by maintaining a temperature of 36°. They may be stored dry or in water, but don't forget to cut the stems when you remove them from storage. On the other hand, if you want to speed up some partially open flowers to make them full-blown, place them in front of an electric fan. This will do the trick.

A word about fragrance, which seems to be important to many, although my own reaction to the magnificent peony is not the desire to smell it but rather to stand in awe of its beauty. Generally speaking, the peony isn't considered a fragrant flower, but there are a number of doubles with a pleasing odor: Avalanche, Blanche King, Dr. J. H. Neeley, Edulis Superba, Martha Bulloch, Myrtle Gentry and Philippe Rivoire. Many of the singles have a none-too-pleasing pungent pollen odor.

Culture of the peony, one of the most popular and satisfactory garden perennials, is extremely simple. Indeed, this flower requires so little time and care for the rich rewards it gives it is actually in a class by itself. The insects and diseases that bother it are few. The roots last a lifetime—if they are purchased from a reliable dealer and planted (in fall) with the top eye no more than 2 inches deep in a well-drained sunny spot. Remember to plant your peonies permanently if possible (mulching the first year), for they resent disturbance.

In early September cut your plants off at the ground, and if they are old or the soil none too good, work in an organic fertilizer around them.

I do hope this article has inspired you to grow more of the flower that can bring so much pleasure and beauty into both home and garden.▶

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Bamboo Moves North

[FROM PAGE 52] will live for several seasons, putting out new leaves each year in addition to the old evergreen ones, it will not increase perceptibly in height or diameter. As the root gains age and strength, however, the clump throws up each spring taller and sturdier shoots, which soon form a dense jungle. The clump spreads rapidly by means of long underground runners.

Watching the young canes grow is endlessly fascinating. Each pointed sprout rises from the ground as fat as it will ever be. In a large clump, it may be nearly 2 inches in diameter. It looks even fatter because of the papery sheaths which at first encase it. This strange shaft lengthens more and more rapidly, until it can almost be seen to grow. While the exact rate of growth is hard to determine, it may at times approach an inch an hour. In the tropics, the rate may be even faster. As it nears full height, the upper part tapers to a slender apex, but no branches appear until the limit of growth is attained.

Older canes can be thinned at any time to provide stakes or poles. Mature canes can be distinguished by the yellowish hue of the stalk. New canes a year or so old have a pleasing dark green color.

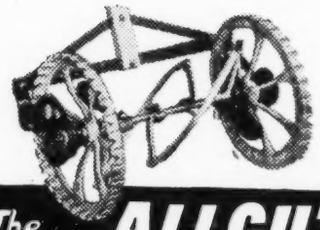
Hardiness

The hardiness of a bamboo depends partly upon where it is planted and how it is protected. Although the roots spread widely, they do not penetrate more than a few inches into the soil. At this depth they must find copious supplies of water at all seasons. If frost ever solidifies the earth immediately below these rootlets—cutting off all moisture to which they have access—death or severe injury to leaves and canes may result.

There are ways to keep out deep frost, even in regions of severe cold. A swamp in our northern climate will freeze only on the surface, and under a mulch there will be much shallower penetration of frost than in open ground. These two principles are combined in my two successful bamboo plantings. Both occupy pond or lake shores in ground not more than a couple of feet above the prevailing water level, and both are kept well mulched.

To plant bamboos in an actual swamp would invite failure, because the roots do require a certain amount of drainage. Sufficient drainage, with the right height of water table, may be secured on a bank *just above* water level. The location should have plenty of sun, and the richer and muckier the soil, the better your bamboo will grow.

For southern plantings, higher and somewhat drier ground is satisfactory. There, large species such as Dendrocalamus latiflorus or Bambusa macro-



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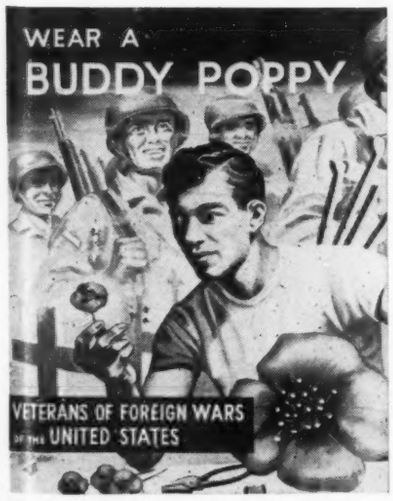

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culmis, which reach heights of 50 to 75 feet, may be grown. Bamboos of the most majestic proportions—120 feet in height, with canes 12 inches in diameter—are probably not growable in any part of continental United States.

Permanent Mulch

For cold climates, even in the most favorable locations, a permanent mulch is essential. The ground surface should be kept covered with at least a couple of inches of material which provides air spaces and insulation—leaves, straw, grass clippings or other vegetable material. Not only does this mulch keep out frost, but in dry weather it also maintains indispensable moisture. After the clump has developed undisturbed for three or four years, its own falling leaves will keep the central parts mulched, but the edges must also be kept covered and more mulch added, with care, each year. An application of manure on top of the mulch in the spring is beneficial.

Phyllostachys aureosulcata has few enemies, either fungus or insect. Toward the end of a hard winter, the tips of its evergreen leaves may be whitened, however, and the ends of long canes which the wind has beaten violently may be partly stripped of leaves, especially if ice storms have pulled at them repeatedly. But the new leaves in June soon cover up all injury.

Birds find a safe harbor in the thicker parts of a bamboo clump, especially during migration. The stiff canes, which stand only a few inches apart, are too slippery for much climbing and so do not permit ground enemies to surprise the songsters. The dense leafage, too, allows no room for the wide spreading wings of hawks or owls. Thousands of smaller birds can rest or sleep at one time in a comparatively small bamboo grove.▶

Espalier Trees

[FROM PAGE 51] Often starting while the fruit is still on the trees during this late summer season, he has a weekly session with the new lateral shoots. His trees have reached the maximum height allowed for them by their framework, so it takes a great deal of careful attention to keep them under control. Aside from trimming for neatness, the big concern is to leave the fruiting shoots intact and obtain the best possible yield.

Carefully trained espalier trees do require a good deal of attention and care, as do most other effective garden displays. Few efforts will repay the gardener more in satisfaction of a job well done than the cultivation of espalier fruit trees. At the same time they literally enable him to enjoy the fruits of his labors.▶

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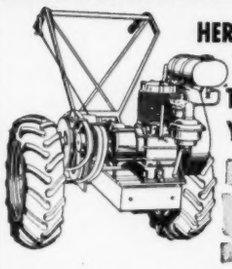

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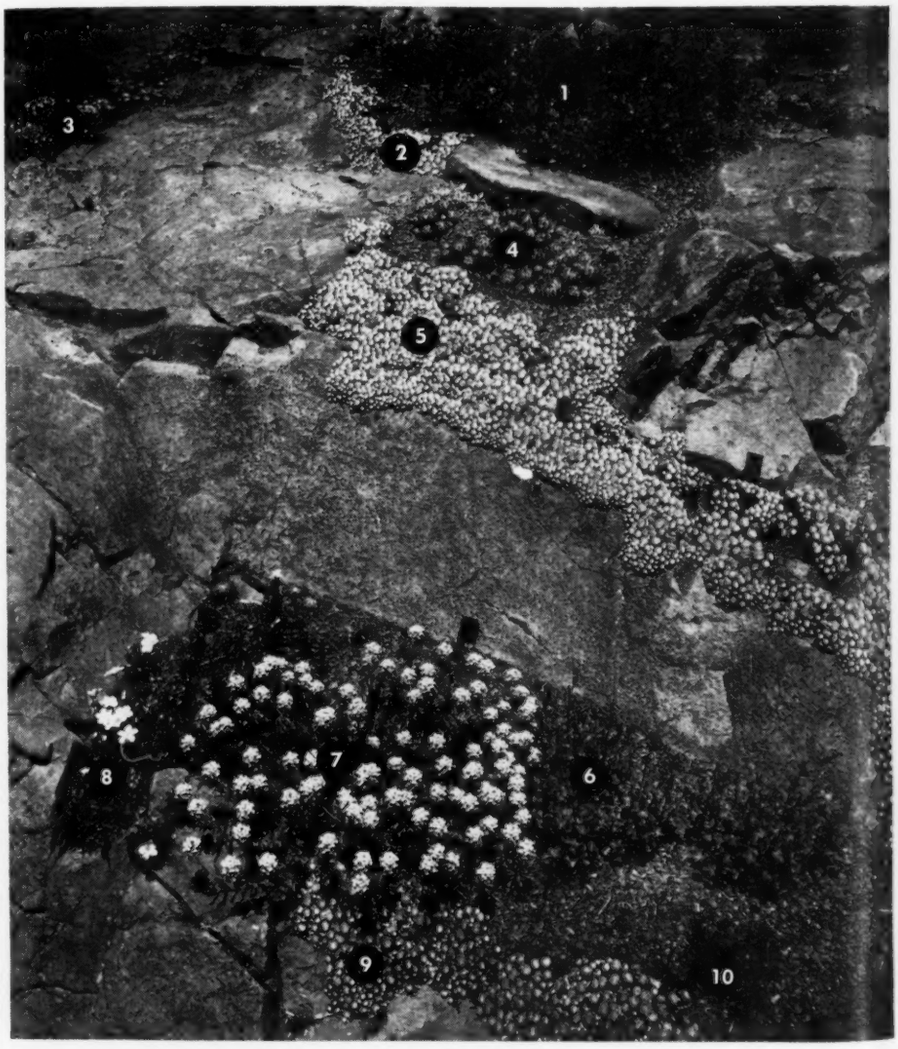
Woodland Rock Garden

[FROM PAGE 43] tions, paths winding along with the brook or pond, then leading up to a rock formation affording an eye-level view of choice alpines. "A fairyland of rock gardens" Allwood has been called. And it is a regular little colony of individual gardens, imposed on a pattern of wooded and rock-studded hills and valleys and meadows—and—water—*all* of them blended together into one happy whole.

Actually, the rocks at Allwood were at first a problem, which by careful planning and hard work was turned into an asset. Because the woods-wide layer of disjointed trap rocks, loosely covered with humus, would support little vegetation, all these rocks were removed—truck loads of them. Then with chisels, crowbars and shovels the exposing process was begun. Sometimes huge rocks were split off in order to create a cliff, pocket or drain, or just to give the outcrop pleasing lines and proportion. The exposing, clearing and cultivating process extended well into the surrounding virgin woods in order to avoid any abrupt division between woodland and rock garden. A beautiful or important tree or a natural colony of blueberry bushes was always respected.

Next on the agenda was the preparation of soil beds. Mixtures of varying proportions of loam, leafmold, humus, peatmoss, gravel, stone chips and sand (and coniferous needles for pine-barren plants) were prepared and distributed 8 to 14 inches deep where planting was planned. In some places an underbedding of gravel or sand to insure perfect drainage was put in. In others, moisture-retentive sphagnum moss was underbedded.

The setting was now ready for planting. The larger subjects, of course, came first. Of these, natives were used in great



Some Effective Plant Combinations at Allwood—

1. Helianthemum Ben Nevis, 2. Sempervivum arachnoideum, 3. Sempervivum soboliferum, 4. Sempervivum tectorum (triste), 5. Sempervivum arachnoideum, 6. Campanula elatines fenestrellata, 7. Aethionema Warley Rose, 8. Arenaria montana, 9. Sempervivum arachnoideum, 10. Geranium sanguineum prostratum.

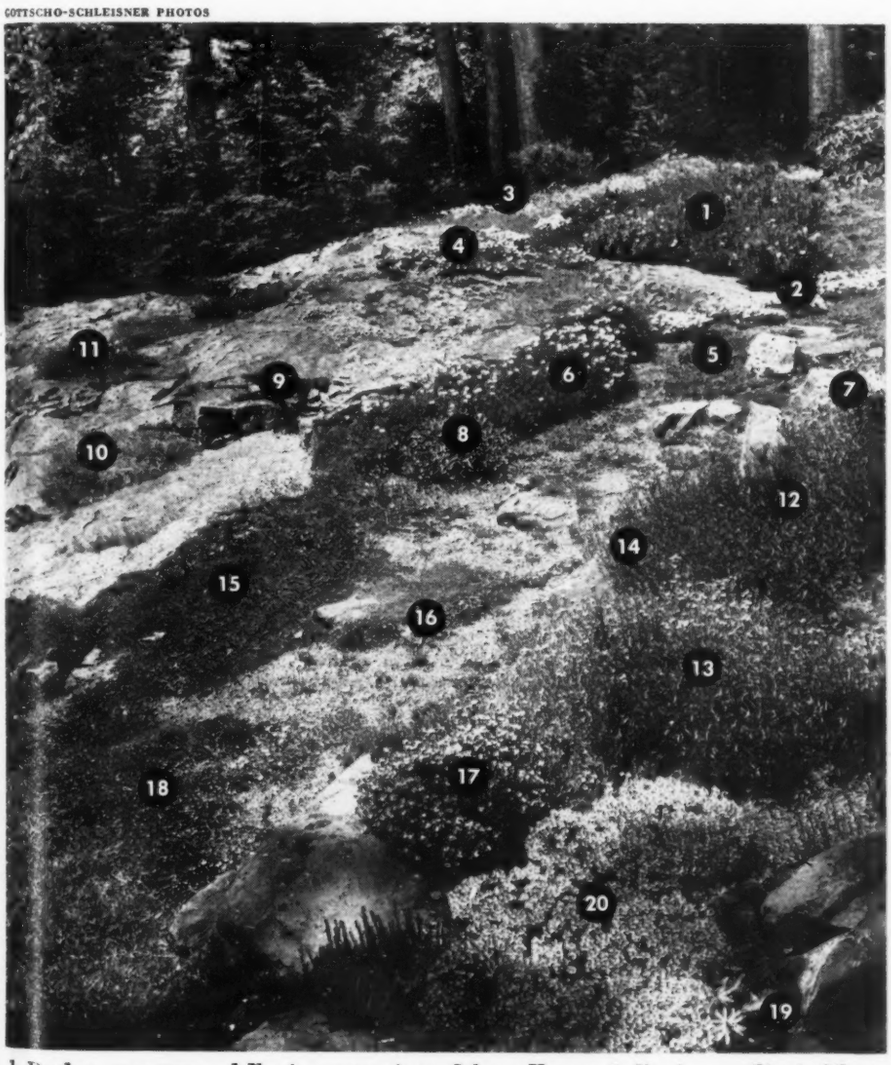
majority because Allwood is an ideal place for them and, too, because these woodlanders were essential in order to tie woodland and garden areas together. Natives so used were white dogwood (Cornus florida), mountain laurel (Kalmia latifolia), sheep laurel (Kalmia angustiofolia), Rhododendron maximum, catawbiense and carolinianum, highbush blueberry (Vaccinium corymbosum) and lowbush blueberry (V. angustifolium laevifolium, formerly V. pennsylvanicum), gaylussacias, deciduous azaleas such as vaseyi, nudiflorum and arborescens, and dwarf evergreen azaleas. Also used were mugho pines, white and Scotch pines, birches (Betula papyrifera and nigra) and such ferns as maidenhair (Adiantum pedatum) and Christmasfern (Polystichum acrostichoides). Edging plants were very carefully selected for their special ability to retain soil without the aid of rocks. Polypody ferns, pachistimas, Potentilla tridentata, ginger (especially Asarum europaeum), Sagina glabra and Sempervivum soboliferum were all successfully used in this way.

With the fundamental tie-in planting accomplished, the newly denuded rocks again melted happily into their woodland surroundings. Then the final embellishment with rock plants and alpines took place, until one by one the individual rock gardens with their surrounding woodland areas were completed. Each garden was given distinctive treatment—its own set of plants. And where it was found that plants alone could not provide the necessary sense of balance and connecting flow between the various gardens, more rock work, artificially designed rock ledges, were added.

Following are some highlights of the plantings of the seven individual rock gardens, any one of which could readily be adapted to the small yard. Indeed, Allwood is a regular storehouse of suggestions for the would-be rock gardener, showing him how, among other things, to turn so-called problem areas of woods and rocks into delightful assets.

Little Rock, the first garden on our

GOTTSCHO-SCHLEISNER PHOTOS



1. Daphne cneorum and Iberis sempervirens Schnee Kuppe, 2. Iberis saxatilis, 3. Silene alpestris, 4. Iberis saxatilis, 5. Sagina glabra, 6. Iberis Little Gem, 7. Hebe speciosa, 8. Helianthemum Ben Nevis, 9. Muehlenbeckia axillaris, 10. Draba sibirica, 11., 12. and 13. Various species of Helianthemum, 14. Erigeron compositus, 15. Thymus serpyllum albus, 16. Potentilla verna nana, 17. Aubrieta deltoidea, 18. Sagina glabra, 19. Eranthis hyemalis, 20. Veronica latifolia rosea.

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itinerary, is particularly proud of its ledges bearing the new, unnamed Nearing hybrid, Rhododendron pubescens × keiskei. Its splendor has astonished the breeder himself. Rhododendron williamsianum, Potentilla megalantha, Geranium renardi and cinereum var. subcaulescens splendens also belong to this formation. At the base of the rock and nearby are masses of bluets, Iris cristata, Primula veris and japonica, Phlox stolonifera, and wintergreen and maidenhair ferns. The Phlox nivalis combined with the mugho pines suggest belated patches of snow receding from the mughos to "the upper reaches."

Proceeding around and over Little Rock via path and logsteps, we come to Horse Shoe or Heather Rock. Its natural shape has been delightfully accentuated by a somewhat tricky planting of heather—ericas and callunas in variety. There is hardly another plant that gives as compensating refreshing effects when wisely used. Bearberry (Arctostaphylos uva-ursi), a relative, has finally established itself here for good.

At New Rock, we see shortia and sempervivums doing exceptionally well, the shortia having seeded and reseeded themselves among the alpines in tiny rock crevasses. Here, cranberry is coloring very well for having been planted in arid soil and serves as brilliant foundation foil for dwarf white azaleas. Here, also, are pretty, pastel groundcovers of Pulmonaria angustifolia and Galax aphylla, which were first used as a solid foreplanting to anchor the rock to a lower level. A little appendix to this ledge seems to be a tolerable location (at last) for bunchberry (Cornus canadensis).

Reno Rock when first exposed was an unsightly yellow and aroused such criticism that it was thus named as a constant warning signal for additional excavations. However, it is now naturally weathered. This rock has the sunniest exposure, and this condition has been employed to full advantage. Sufficient clouds—pardon, I mean tall trees that take their place—cast part shade, making the area suitable even for a few alpines like Helianthemum apenninum and nummularium. H. Ben Nevis, Silene alpestris, Anacylus depressus, Geranium sanguineum prostratum, Potentilla verna and villosa, Erigeron compositus, Scabiosa alpina, Achillea tomentosa, Dianthus alpinus and Gentiana septemfida.

Bit O'Rock, though rather insignificant, is not without merit. One wonders how this rock holds together. It is split into so many cross sections it appears to have been built up by hand of individual blocks. Cooly framed by a collection of English ivy, it is accentuated by a bright slope of woodruff (Asperula odorata) shaded by white dogwood. Also here are Athyrium goeringianum pictum, Woodsia obtusa and ilvensis, and Allwood's

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original plants of Ajuga reptans alba, which is now used as groundcover in a larger area.

Big Rock, our next garden to visit, is crowned by a unique planting of creeping azalea Hakata Shiro, Taxus baccata repandens, Erica carnea, Rhododendron carolinanum, gaylussacia, polypody ferns, a Swiss pine (Pinus cembra) and finally with a plateau of shady meadowgrass. From this plateau, we overlook the swamp below filled with colorful Primula japonica, the pond and the lower field with its winding lily brook and collection of deciduous shrubs: Viburnum alnifolium, Zizyphus jujuba, Rhamnus frangula, Albizzia julibrissin, Clerodendron triehtomum, Koelreuteria paniculata, Cephalanthus occidentalis, Clethra alnifolia, Myrica gale, Rhododendron viscosum and Paulownia tomentosa.

Two artificial trickling springs moisten the rough surface of Big Rock, as well as the stone grits under the planting at the base, for which the Gentiana acaulis are especially grateful. The ledges bear stratified colonies of Phlox lilacina, Armeria maritima, Campanula poscharskyana and Hypericum calycinum. Outlining the base of the huge rock in soft color and also topping the adjoining artificially constructed outcrop are some real alpines which Mr. Buck has procured. He calls it his favorite corner, but I notice other botanists spending some time there too. Among these pet plants are Genista sagittalis, pilosa and horrida, Dryas suendermanni and octopetala, Androsace sarmentosa, Globularia repens and cordifolia, Saxifraga cochlearis, lingulata, engleri and cartilaginea, Rhododendron racemosum, Cotoneaster congesta, Tsuga sieboldi, Primula sieboldi and sieboldi variety Purity. These are all well established specimens with their roots deeply anchored in the rock crevasses. Noteworthy too at Big Rock are two colonies of trillium and cyclamen, well nursed with coniferous needles.

Polypody Rock, clad in a mantle of Polypodium vulgare, ends our little excursion. This rock boasts a great variety of plants loving its northern exposure. Although Polypody Rock is still not finished in some respects, it has a stature that viewed from a distance is impressive. Worthy of note in this neighborhood is Foamflower Lane, while a mass planting of Tiarella cordifolia in deep shade is an unforgettable sight.

In concluding this cursory description, I cannot overemphasize the continuous pleasure and added delight such a garden can give in all seasons by uncovering daily new surprises. And although there are no blooms in winter except those of winter aconite, snowdrops and the winter-blooming heathers, there is a surprising amount of color produced by winter foliage and wood ever varying in greens, grays, reds and browns and in textures.▶

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Complete your wardrobe with the "Playotte". This action-built skirt is as attractive when gardening as it is when golfing, bowling, riding or hiking. Tailored with button girdle front over a trim concealed zipper. Fine Rayon Gabardine in navy, black, gray, brown, green and wine. Waist sizes: 22-32, $5.95; 34-40, $7.95, plus 15¢ postage. Sheldon Specialty Company, Dept. A., 545 Fifth Ave., New York 17, N. Y.

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Soakeze, the gift for a gardener! Attaches to garden hose. Has 5 outlets, each with small plastic hose attached; two 13 ft. long, two 9 ft. and one 7 ft. Place ends of hose at base of selected plants; run small stream of water for deep, thorough soaking. Easy to handle, 5 yr. guar. Complete, ready to use $6.95 ppd; with sprinklers, $8.95. Jons Manufacturing Co. Dept. B-30, 406 Dantzler St., Saint Matthews, S. C.

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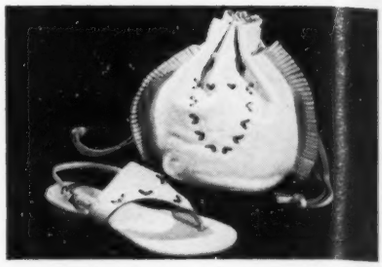

CHILDREN'S DISHES . . .

Here's a new design in personalized pottery for children called "Toyland". Hand painted in five colors with the child's name permanently fired and glazed into each piece for lasting beauty. Set of three pieces—plate, cup and bowl, $5.00 postpaid. Be sure to print name clearly and specify "Toyland" pattern. T. G. Parsons Co., FG-5, P. O. Box 738, Binghamton 18, N. Y.

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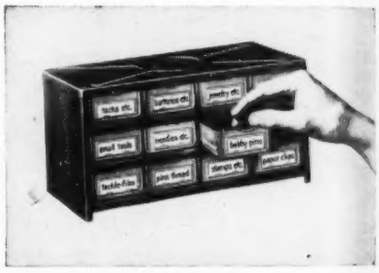
A place for all the little things around the shop, desk or sewing room that have a way of getting lost. Metal dividers for the 5¾" x 2¾" x 1¼" aluminum drawers make two or three small compartments if desired. Three-tier (12 drawer) size, 6½" high, $5.95 postpaid. Two-tier, $4.95; four-tier, $6.95 and six-tier, $9.95. Four drawers to each tier. Geneva General Store, FG-5, Geneva, 1, Ohio.



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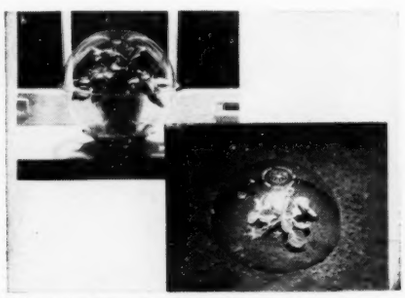
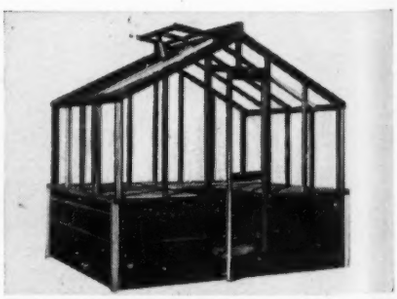
You can't beat the Dutch! Imported from Holland, these metal cannisters have a baked enamel finish that makes them look like fine Delft china. Air-tight and moisture-proof, they are handsome enough to be used individually in any room in the house. Blue and white only. They come nested with the largest about 6½" high and 5½" in diameter. Set of four, $5.00 postpaid. Serv-U, FG-5, 829 Washington St., New York 14, N. Y.



Plasti-Plant Hoods

Protect your seedlings, cuttings and small plants with a 9" hood of clear plastic. Ideal for propagating African Violets and other house plants. Gives outdoor protection from airborne diseases, light frost, hail and small animals. Two of them form a striking transparent display globe for your prized house plants. 6 for $3.95 ppd. Plasti-Plant Hood Co., P. O. Box 93-B, 86-07 Justice Ave., Elmhurst, 73, N. Y.



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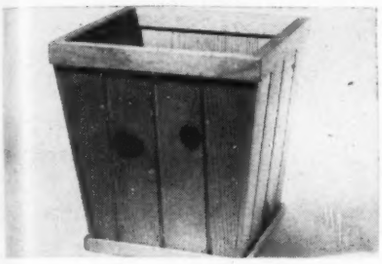

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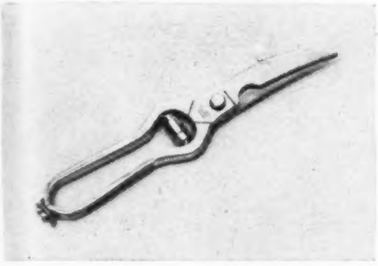

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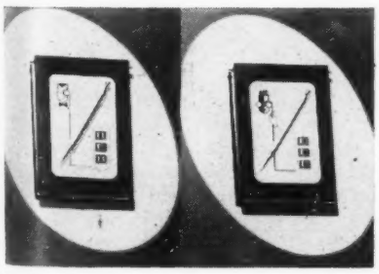

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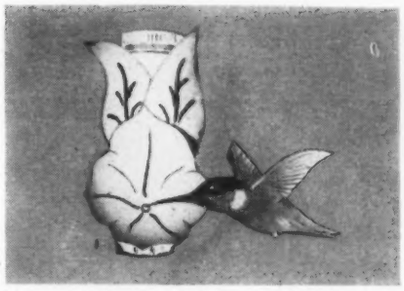

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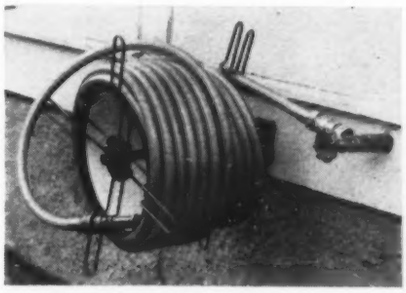

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Holds 100 ft. of rubber or 150 ft. of plastic hose. Reel spins on bracket that fastens to house or garage, prevents kinking. Reel removes from bracket for inside storage or other locations; requires one cubic foot of space. When reel is fastened near faucet unwind only as much hose as needed and connect to faucet. Reel and bracket, $4.95 ppd. Extra brackets 75¢. Becker Prod. Co., F-5 161-30 129th Ave., Jamaica 34, N. Y.

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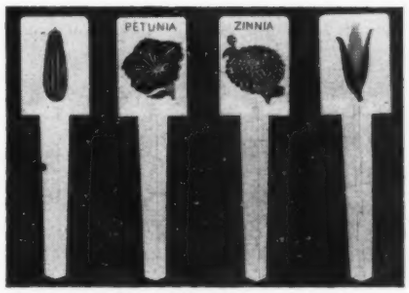

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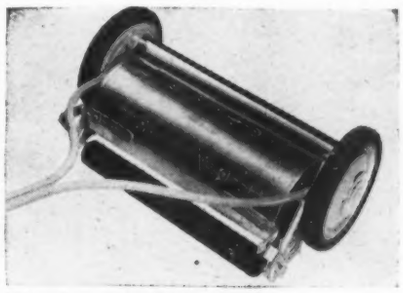

The Lawne Mulcher

Helps build a beautiful cushiony turf without grass catching or raking. Adjustable to fit hand mowers only 14" to 20" width. Hood shaped, it throws clippings forward so that coarser ones are recut fine enough to sift down out of sight and form a mulch. Saves fertilizer. Protects roots from scorching. Reduces weed germination. Only $6.95 ppd. Money back guar. Lawn Mulcher Co., Inc., 79 E. Wacker Dr., Chicago 1, Ill.

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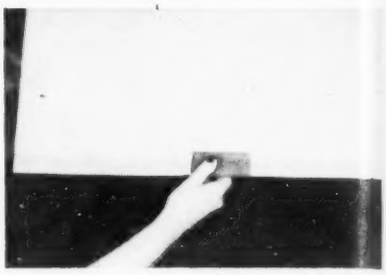
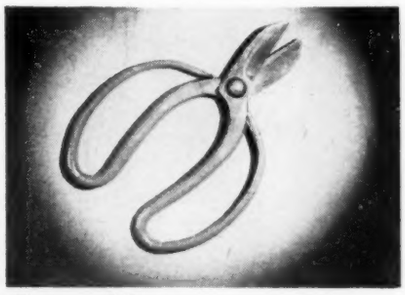


RACK AND CORD HOLDER . . .

Save steps and at the same time have wrinkle-free clothes with this combination ironing board clothes rack and cord holder. Holds twelve pieces without crushing. High enough for dresses or other long pieces. Easy to attach. Fits any board. On and off in a jiffy and comes apart for easy storage. $3.95 postpaid. Howard Sales Co., FG-5, Winchester, Tenn.

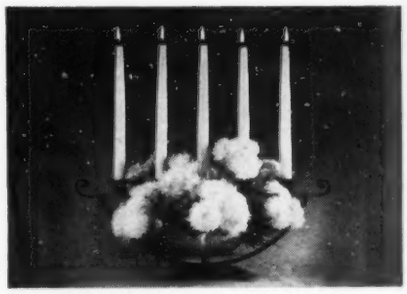
For Bare Spots in Lawns

Now quickly grow rich green turf with magic new Mend-a-Lawn. Scientific combination of selected lawn seeds and non-burn, organic fertilizer to speed growth. Just sprinkle from shaker package any time from early spring to late fall. Watch grass sprout. 3-lb. package, enough to treat 300 sq. ft. established lawn, postpaid for only $2.35. Glasscraft, 920-FG Chicago Avenue, Evanston, Illinois.



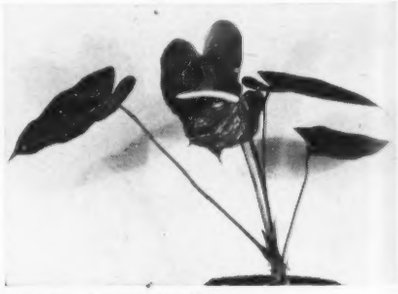
Flower Shears

These steel shears with fireman-red handles come from Japan—the home of artistic flower arranging. The unusual shaped handle and short precision ground blades with keen cutting edge were specifically designed to let you snip rose buds or thick branches. Just the thing for every gardener and flower arranger on your gift list. $3.75 postpaid. The Shadow Box, 1378 East 8th St., Brooklyn 30, N. Y.



Candleplanter

A real beauty for your own table, buffet or mantle. Also makes a fine gift for a June bride. Polished brass bowl holds ivy or flowers. It is 7" in diameter and removable for cleaning. Candleholder is 18" wide, made of wrought iron, black finish. Has five adjustable, bud-shaped holders. Price $8.75 postpaid. *Catalog Free.* Hagerstrom Metalcraft Studios, 46 Old Milwaukee Road, Wheeling, Ill.



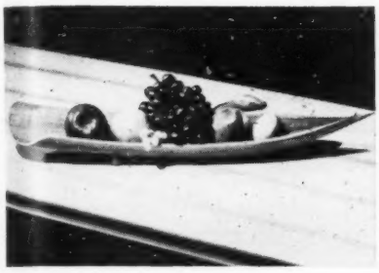
Anthuriums In Bloom

Hawaii's most famous flowers—Anthurium Andraeanum with bloom. The exotic "Flamingo" flower in selected reds and pinks. Healthy blooming size plants up to 12" with flower. $2.50 each; 6 for $8.95; 12 for $15.50, airmail prepaid direct from Hawaii. No COD's please. Cultural directions included. Free Tropical Plant Catalog. Cal-Hawaii Greenhouses, P. O. Box 468-F, San Pedro, California.

STORE *with Erna W. Cass*

PHOTO CIGARETTE BOX . . .

A very special gift for father! A cigarette box with his favorite photograph on the cover. Holds 2 packs of cigarettes. Heavy glass base is hand-made. Cover takes a 3¾" x 5½" photo set in a silverplate frame. $5.95 postpaid. In 24 karat goldplate frame, $6.95. Market Combers, FG-5, Box 3282, Sta. F., Atlanta, Ga.

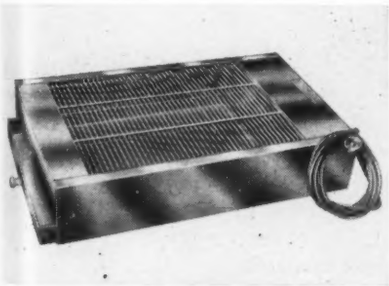


COCONUT SPATHE . . .

Nature protects the delicate blossom atop the coconut palm with a sheath-like case. These beautiful curved fronds have been fashioned by native craftsmen into these handsome, decorative accessories. Use it for fruit, flowers, hors d'ouevres, or as a breadboat or table centerpiece. No two alike. Natural, aqua, coral, sea green or flame yellow finish. $4.95 postpaid. Variety House, FG-5, 3417 Octavia St., New Orleans 15, La.

Lawn Trimmer

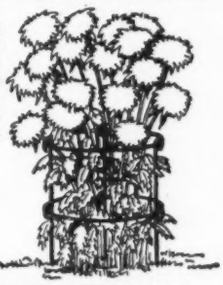
At last a lawn trimmer that works! This new design makes it possible for you to do a complete job of trimming your lawn. Add beauty to your flower beds and shrubs with neat, clean border. Edge your sidewalks and curbs. Do it with ease! Order your lawn trimmer during this limited introductory offer. $3.95 postpaid in U. S. A. only. Notch-Loc Co. Inc., 601 Cornell Ave., Rice Lake, Wis.



Insect Electrocutor

Solve your fly and insect problems without harmful poisons or sprays! A little "bait" to attract flies instantly electrocutes them between two grids by a slight, low ampere shock. Dead flies become bait for other flies and insects. To attract night-flying insects simply insert electric bulb. No danger of shock to humans. $27.50. Free literature. Insect Electrocutor Co., Sta. V., Box 86W, Cincinnati, 10, Ohio.

Steel FLOWER SUPPORTS!



Here's a sensational bargain! Protective flower supports made from heavy galvanized steel wire. 24" high by 14" in diameter. Order NOW! Supply may be limited later.

6 for only $1.95
Postpaid
(Add 25¢ west of Denver)

PROTECT YOUR PEONIES, ASTERS AND OTHER TALL PLANTS

Keep your lovely peonies, asters and other tall plants in perfect condition throughout their beautiful flowering season. These sturdy protective supports keep them upright and prevent broken plants and stems due to mowing, rain and heavy foliage. You'll be amazed how these supports will help beautify the appearance of your plants. **Only $1.95 postage paid for 6 supports.** (2.20 west of Denver). All supports collapsible for easy storage. Satisfaction Guaranteed or money refunded. Orders shipped immediately. ORDER at this LOW PRICE TODAY. SUPPLY LIMITED.

IDEAL MFG. CO.
DEPT. 513 OSKALOOSA, IOWA

Cloth-Lined Rubber Gloves

Keep hands soft-lovely! Special offer. Cloth-lined rubber gloves for house-and-garden. Protect hands and manicure when dishwashing, gardening, cleaning, laundering. Soft cloth-lining makes gloves slip on-off easily; absorbs perspiration. Roughened fingers. Order pair for house, pair for garden. $1.25 a pr., 2—$2.25, ppd. State size: large, medium, small or give regular glove size. Janet Forister Dpt. 127, Bloomington, Ill.

New Revolving
FLOWER TREES
FOR YOUR CHERISHED AFRICAN VIOLETS

Each tray rotates freely about center for even sunning of plants

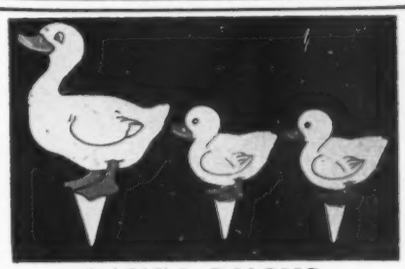
Made of lustrous rustproof spun aluminum. Each tray is waterproof and holds up to ½ inch of water. Plants can be watered the ideal way—from the bottom. No individual watering! This tree holds up to 18 four-inch African Violet flower pots, yet requires only 20-inch diameter floor space.

These Flower Trees are available in 5 heights.

36" high: 9" from floor to lower tray; 9" between trays. Each **$24.50**
39" high: 12" from floor to lower tray; 9" between trays. Each **$25.25**
42" high: 15" from floor to lower tray; 9" between trays. Each **$26.00**
45" high: 18" from floor to lower tray; 9" between trays. Each **$26.75**
48" high: 18" from floor to lower tray; 10" between trays. Each **$27.50**
All trees are shipped assembled via express—prepaid.

Write for free circular on African Violet FLOWER Saucers. WOOD Flower Trees, Squatty POTS, and Spun Aluminum

OZARK SPUNALUM CO.
BOX 59-S, JACKSON, MISSOURI



LAWN DUCKS

Mama duck and two baby ducks! Made of heavy molded white plastic with bills and feet in red. So natural and lifelike you'd almost expect them to go waddling and quacking across the lawn. Set their pointed bases into the grass. Weatherproof, durable. The largest duck is 14" high, the smaller ducks are 8" high. Cut off their pointed bases and use them to decorate bar, baby's room, the bath!

Set of 3 only $1.00 postpaid
2 Sets—$1.95 postpaid
Send for New Spring Catalog.

BLACK & COMPANY, Inc.
99-15 Metropolitan Ave., Forest Hill, N. Y.

Have an OUTDOOR FIREPLACE

Easy to Build—Fun to Use

A real "entertainment spot" for family or guests! Everyone enjoys food cooked outdoors! Following simple instructions you just add masonry in your choice of design or material to a Majestic all-metal unit—and you have the perfect operating, lowest cost outdoor fireplace. Lasts for years! Choice of units from $20.95. See your dealer or write

SEND ONLY 25¢

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If You Want to Stop Smoking

try NO-TO-BAC Lozenges. See how the aromatic flavor of NO-TO-BAC helps you give up the craving for tobacco. Rush $1 to NO-TO-BAC for 7 days' supply. (For heavy smokers—16 days' supply—$2.) Money refunded if not satisfied. Write: NO-TO-BAC, Dept. GR, Stamford, Conn.

DID YOU HEAR...

THE ONE ABOUT *Soft Touch* GARDEN GLAMOUR GLOVES?

Grand for grooming grommets, mopping moppets and tipping tippets. Great for growing gardens, too. Waterproof material in three lovely pastel colors feels like fine kid leather. The first garden gloves which retain sense of touch for delicate outdoor chores. Handsome for households. Washable. Azure blue . . . Mint green . . . Maize yellow.

Buy SOFT TOUCH gloves from your dealer or mail order supplier. If not yet available, $1 per pair, postpaid. New design . . . one standard size fits all women. State color choice.

BROOKVILLE GLOVE COMPANY
Dept. 5-67 Brookville, Pa.

Cover seals in natural juices, flavors without burning meals

Weber

BAR-B-Q-KETTLES and GARDEN LITES

Cover, dampers allow charcoal to broil meat evenly without flame to a tasty tenderness; also save charcoal for re-use. 22½" dia. $38.50. 37" dia. $98.00.

Modern outdoor lighting for walks, pools, patios. Green or red shade. Spike base 39½" or 49½" high—$24.95. Round base 39½" or 49½" $29.50.

Send size, color. Check or M.O. (No C.O.D.s—Express collect).

WEBER BROS. METAL WORKS
110 N. Jefferson St., Chicago 6, Illinois

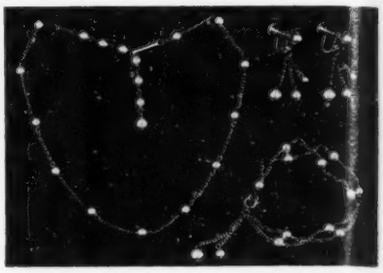
☐ Kettles at $38.50 ☐ Kettles at $98.00
☐ Lites at $24.95 ☐ Lites at $29.50

Height____ Base____ Color____
Name____
Address____
City____ Zone____ State____

shop in Flower Grower's **GENERAL**

DAINTY COSTUME JEWELRY . . .

A gift sure to be appreciated for Mother's Day or Graduation! Gold plated chain and simulated pearls—an exact replica of heirloom pieces. Created with the same care for detail and delicacy that goes into "real" jewelry and what's more it looks it. Necklace has adjustable closing; double chain bracelet with two pearl drops; earrings with three small pearl drops. $1.50 each, tax included, postpaid. Four Maples, FG-5, Somerstown Road, Ossining, N. Y.

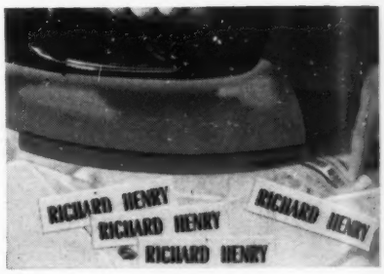


LONG LIVE THE QUEEN . . .

Everyone will want a souvenir of the Coronation that takes place in June. Here are two decorated with the portrait and crest of Queen Elizabeth and the date of the Coronation. The glazed earthenware mugs are $1.35 each; made of fine china they are $2.75 postpaid. Candy dishes are 75¢ and $1.35 respectively. Choate's Gift Mart, FG-5, 504 Jackson Bldg., Chattanooga, Tenn.

IRON-ON NAME TAPES . . .

In getting the children's clothes ready for camp you'll welcome these easy-to-iron-on name tapes. No sewing! Just press on with warm iron; they become a permanent part of garments. Resist laundering and cleaning. A convenience to servicemen and institutions! Individually cut. Imprinted in black, blue or red on white tape. 100 for $1.50 postpaid; 150—$2.00; 300—$3.00 for each name. Add 50¢ for 2-line imprint. Art Colony Industries, FG-5, 69 Fifth Ave., New York 3, N. Y.



New Easy Way STOPS SMOKING HABIT

TOBACCO BREATH TOBACCO NERVES TOBACCO HEART

Banish forever the tobacco habit with its health killing effects on heart, throat and lungs. Don't be fooled by today's cigarette advertising with its tricky sayings and catchy jingles. Nicotine IS poisonous and a real danger to good health. Tobacco smoke DOES dry out the throat and make you cough! Sensational SMOK-NO-MOR Tablets must break the smoking habit within one short week or money refunded. Break your tobacco habit today . . . feel better . . . eat better . . . sleep better. Send no money, pay postman $3.00 plus postage for liberal supply, cash orders we pay postage. Write to:

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ALPINE WREN HOUSE KIT

All parts of White Pine and weatherproof plywood, accurately cut to fit, sanded and screw holes pre-drilled. Detachable base for quick, easy cleaning. Only hammer and screw driver required to assemble. Makes lovely indoor ornament, too, for sunrooms or porches. Kit includes all nails and screws, waterproof glue, diagram and complete instructions. $2.75 ea. ppd.

2 kits $5.00 (No C.O.D's.)

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NEW SENSATIONAL TIMER VALVE SHUTS OFF WATER *Automatically!*

Have greener lawns, healthier plants, more beautiful flowers without wasting water. Set to time desired up to one hour-WATERBOY Automatic shuts off water at time you select. Do other activities - take nap - go shopping. Fits garden hose or iron pipe. Satisfaction guaranteed. See your dealer or order direct. $9.95 ppd. or $1.00 and bal. C.O.D. plus postage. Silent Sioux Corporation - Dept. FG-5, Orange City, Iowa. Ref: Northwestern State Bank. (Dealerships available.)

FOR BLUE RIBBON ARRANGEMENTS

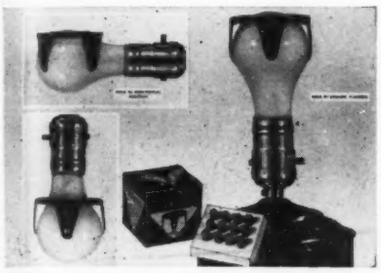
Been missing the top prizes because you can't make your arrangements look quite right? Use this new spiral flower holder and watch the honors pile up. The 15 spirals are so flexible that you can adjust each element to just the proper angle—yet strong enough to hold it there. Heavy base prevents tipping. At the show or in the home, your arrangements are sure to look better. Only $1.49. Postpaid if you send check or money order. C.O.D.'s accepted.

SPECIALTY PRODUCTS CO.
304 East Northern Ave. • Springfield, Ohio

STORE *with Erna W. Cass*

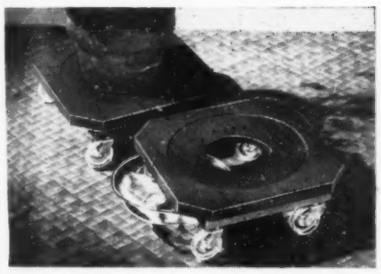
KAR-RAK . . .

Steel clothes rod for your car allows you to have that "freshly pressed" look while traveling. Fits any car. No screws or tools necessary. Rubber ends protect interior. Holds up to 32 garments hung full length without obstructing rear view. 48" long extends to 54". Also can be used as an extra non-sagging rod for clothes closet. $4.49 postpaid. Melaire Distributing Co., FG-5, 420 Lexington Ave., New York 17, N. Y.



EXTERM-O-LITE . . .

A new, easy way to solve insect problems! Just snap the unit on an ordinary light bulb and pour the special insecticide capsule into grooved area. Effective immediately. Vaporized into air, insecticide reaches into every nook and corner, killing ants, flies, mosquitos and other flying and crawling insects. Each application gives a full week's protection. 2 units and insecticide capsules, $2.95 postpaid. Candle-Lite, FG-5, 314 S. W. 8th Ave., Miami, Florida.



PLANT WALKER . . .

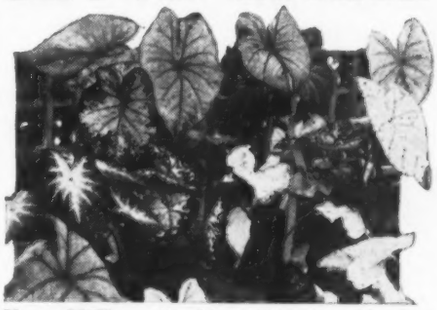
Place your large potted plant on a "walker" for easy moving from indoors to out or from shade to sun. The California redwood base has good size casters for easy rolling. Transparent plastic pan slides under to catch excess water; protects carpets and patio surface. 11½" square. $6.95 postpaid. Gift Sources, FG-5, Springdale, Conn.

Easy-to-use ALL PURPOSE SPRAYER

The sprayer to take care of all home gardening jobs. Spray flowers, shrubs, small trees. Adjustable nozzle—vary spray from fog-mist to full stream. Brass and neoprene, complete with carrying strap and cap to fit any Mason jar. Use any soluble spray solution; no waste, save unused portion in jar. If unavailable at dealer, send $4.75 ppd. (Denver & west, $4.95). Guaranteed.

LITTLE GIANT Ken-Sprayall
SPRAYERS & NOZZLES, INC.
2573-28th Ave. N. — St. Petersburg, Fla.

The Perfect Year 'Round GIFT For MOTHER



Your GIFT membership will start with these "Tropic Glamour" Caladium Bulbs, which will produce mammoth, beautifully mottled leaves of many shades.

A Membership in The
Plant of Month Club

Every month she will receive (1) a selection of lovely, unusual plants or bulbs chosen by experts; (2) complete planting instructions; (3) interesting history of flower. GUARANTEED TO GROW. BONUS—New, Exotic Imported Bulb. Full Year Bonus: 32 page book, "How To Grow and Bloom House Plants". LOVELY GIFT CARD WILL BE SENT MOTHER BEARING YOUR NAME. Order today.

SIX MONTHS MEMBERSHIP $5.00 — FULL YEAR $10.00
6 monthly selections plus bonus.

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Dept. F-4 Des Moines, 9, Iowa

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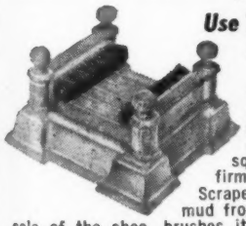
Here is my check or money order for ☐ $5.00 6 months ☐ $10.00 1 year. Please send to person's name on attached card.

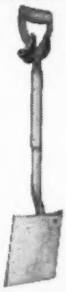
Name .....
Address .....
City .....State.....

"Quit Tracking Mud"



Use This Movable Shoe Scraper

Move it when and where you need it. Of heavy cast iron, 10" square, it's solid, firm and practical. Scrapes the mud from the sole of the shoe, brushes it from both sides. Painted black, complete with two removable nylon brushes. $18 delivered east of the Mississippi.



Keep Tools off the Floor using these attractive implement holders. For spades, rakes, etc. Painted black. Set of 4, $6.50 prepaid.

Write for 1953 Catalog of useful, hard-to-find, ornamental iron work.

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ESTABLISHED 1858
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FOR AFRICAN VIOLETS
. . . and other plants . . . the NEW
All-Steel Vio Holda
PLANT STAND
Ideal Mother's Day Gift

Clubs: Write for Club Prices

Sturdy, heavy gauge all-steel welded. 40" high. Will not tilt or tip. Holds 11 plants, 10 on revolving arms extending outward 6" to 12" from center shaft. Arms are moveable to any position to enhance beauty of display and allow even sun and air exposure. Light weight. Easily dismantled for cleaning. Choice of white or green enamel.

ORDER BY MAIL TODAY
Only $14.95 each, plus $1.00 for packing and postage.

Specify color desired. Send check or money order. Immediate shipment. Satisfaction guaranteed.

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WRITE FOR **FREE CATALOG**
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BOYS' POWER SHOVEL TRACTOR

Latest **TRACTALL** hit! Power shovel, loader, grader, transporter—**all in one!** Imagine the thrill your boy will get, surrounded by levers—ready for all kinds of "play-work". Chain Drive. Ideal for children up to age 12. Ask your dealer or write today directly to us for **FREE** literature.

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Sturdy Hardy Perennials

Strong, well-rooted plants, packed to carry safely coast to coast, and then live, thrive and flower. Hundreds of kinds, unusual bulbs and hardy plants, in our New illustrated catalog. Ask for your copy.

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BULBS • DAY LILIES • POPPIES

Colorful Catalog Free
Early orders advised

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100 TULIPS $3.39 POST PAID IN U. S.

Order Now—Pay Next Fall!

For a limited time only, you can get a choice mixture of all the popular tulip colors at extra-low prices. Order now and we will ship your bulbs COD plus postage at planting time, or . . . SEND CASH with ORDER and we will pay the postage. Remember, these are not so called "bargain bulblets." Each is about 4" around—big as a fifty cent piece. They are guaranteed to bloom next spring. Order now! For our FREE catalog write

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COLCHICINE
the MIRACLE DRUG
Causes wondrous plant mutations

A simple scientific chemical means of creating new forms in flowers all plants. Easy to use. Complete kit with instruction booklet

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Holly

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RED, WHITE, BLUE
African Violets
Collection AFS: One each
Red Sport — Dark Reddish purple
White Lady—Snow-white
Blue Boy — Popular Purple blue

Total three blooming Size Plants—$3.45, Postpaid.
Write for Special African Violet Price List and General Nursery Planting Guide Catalog in color.
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Over 100 Varieties
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For your garden back east. Sow them now to bloom in summer and fall. Ten choice species in separate packets. All annuals of easy culture, including the **California Poppy, Baby Blue Eyes, Blue Lupine, Blazing Star** and six others equally beautiful. All postpaid for . . **$1.00**

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African Violets

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LEAVES—GROW YOUR OWN PLANTS. 150 guaranteed new and old varieties. Request list. MRS. KATHLEEN COOPER, 4208 De Coursey, Covington, Kentucky.

SUPPLIES FOR AFRICAN VIOLET GROWING. Insecticides, fungicides, vermiculite, charcoal, peat moss, leaf mold, superphosphate, Vitamin B_1, Rootone. Plastic labels, wicking, etc., etc. Write for price list. NEIL C. MILLER, Layton's Lake, Penns Grove 2, N. J.

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LATEST VARIETIES, LEAVES AND PLANTS. Write for Wholesale and Retail list. Greenhouse visitors welcome. HENRY TEN HAGEN, Warsaw, New York.

SPRINGTIME, LEAF TIME, OLD AND NEW, PASS UP YOU LOSE. Sold in collections ONLY 10 for $1.50. Please send stamped envelope for listings. LEAVES, Box 1254, Youngstown, Ohio.

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SAY IT WITH VIOLETS—African Violet leaves, shipped anywhere. Drop a CARD for new price list, featuring "THE NEWEST OF THE NEW AND BEST OF THE OLD" including "FROSTY", variegated yellow and green foliage. THE VIOLET HOUSE, 828 Kenmore Blvd., Akron 14, Ohio.

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BEARDED IRIS from Washington's famous Puyallup Valley. 10 Lovely Iris, your choice $3.50. List free. CONNELLY'S IRIS GARDENS, B1012, Second Ave., N.W., Puyallup, Washington.

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FERTOSAN BACTERIA CONCENTRATE will decay garden waste into excellent compost quickly. Enough for 1 ton; $1. FERTOSAN, West Jordan, Utah.

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MYRTLE (Vinca Minor). Fifty nice plants $4.00 postpaid. Hundred $6.00 postpaid. Five hundred $27.50 postpaid. CHARLES K. STOTLEMEYER, Hancock, Maryland.

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ORCHID PLANTS to grow in your home. Cattleyas and many other genera. Write for FREE descriptive list and prices. Cultural instructions included with each plant order. LEE ORCHID COMPANY, Jonesboro, Arkansas.

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CURTIS GARDEN—Oriental Poppies and Tree Peonies. Fine varieties and Curtis Introductions. Send for list. CURTIS GARDEN, 8810 Colerain Pike, Cincinnati 24, Ohio.

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GENUINE WISCONSIN PEAT. Three bushels two dollars, express charges collect. Guaranteed acid. Particularly desirable rhododendrons and azaleas. THUNDER LAKE CRANBERRY MARSH, Three Lakes, Wisconsin.

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PEONIES: Three beautiful named peonies labeled and postpaid $2.00. Fall delivery. Over 270 varieties. Free List. ATHA GARDENS, West Liberty, Ohio.

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ONION PLANTS—Choice Select Yellow or White Sweet Spanish, Yellow or White Bermuda. 300, $1.35; 500, $1.85; 1000, $2.95; 3000, $5.50, postpaid; crate (approximately 6000), $8.50, prepaid express; or $10.00 per crate, prepaid by airplane. AUSTIN PLANT COMPANY, Box 313, Austin, Texas.

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USE ELECTRIC HEATING CABLE for beds, benches, etc. 2' x 2', $1.80; 3' x 3', $2.80; 4' x 4', $3.00; 6' x 6', $6.00; thermostats, $4.50. Add 30¢ postage. RAHM'S, 308 Prospect St., Herkimer, New York.

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FROM RUGGED NEW HAMPSHIRE a Spring Rainbow of Mixed Primrose, Special Handling postpaid. Doz. $4.50. BOULDER WALL GARDENS, Walpole, New Hampshire.

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PRIZE AWARDS for Flower Shows. Write for samples and prices to THE HORNER PRESS, PO Box 85, Rutledge, Del. Co., Pennsylvania.

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ROSEBUSHES, Large, heavy rooted, two-year, ever-blooming varieties only. $7.95 per dozen postpaid. Free descriptive list. McFARLAND'S NURSERY, Tyler, Texas.

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COLORFUL HEN AND CHICKS 10 varieties. Labeled, prepaid $2.00. Over 100 different varieties. "Make a Hobby of Hardy Sempervivums". MACPHERSON GARDENS, 2920 Starr, Toledo 5, Ohio.

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HAWAIIAN PLANTS—Colorful ti 8-11", 3 for $2.50. Flowering anthuriums up to 12" (pink, orange, red) $2.50 each. Bird of Paradise 6-8" $1.75 each. Root clumps—Ginger (white, yellow, red, shell, torch, spiral, kahili), Heliconia (red, yellow) $1.75 each, 3 for $4.50. Above airmail ppd. Ti cuttings, 5 for $1.75 ppd. JHF GARDENS, Box 879, Wailuku, Maui, Hawaii.

GENUINE BIRD OF PARADISE Plant seed, Strelitzia Nicolai, Strelitzia Reginae 5 seeds for $1.00, 12 seeds for $2.00. S. R. De KOLD, Box 291, Vero Beach, Fla.

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BIRD OF PARADISE SHRUB. Easily grown from seed. 25 seed for $1.00. Write for description. HUBBARD'S, 1531 Hanover Avenue, Roanoke, Virginia.

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VIOLETS—6 Elk Fragrant Purple, 2 Lellias—light blue, 1 Deparme—double blue. $3.00 postpaid. HAPPY VALLEY VIOLET FARM, 4150 Old San Jose Rd., Rt. 2F, Santa Cruz, Calif.

DOUBLE ENGLISH VIOLETS. Very fragrant, 12 for $3.00, 100 for $20.00. MRS. A. L. DICKINSON, Benton Harbor, R.F.D. 3, Michigan.

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NATIVE WILDFLOWERS: Rhododendrons, azaleas, evergreens, shrubs, trees, perennials, orchids, ferns, vines. Free catalog. THREE LAURELS, Marshall, N. C.

AFRICAN VIOLETS

Now is best time to ship. Also their relatives, Episcia, Naegelia, Aeschyanthes, etc. Orchids, Ctenanthe, Haemanthus, (Blood Lily), Lycoris, Brunsvigia and Nerine. Catalog contains full culture directions. Spring 1953 and Fall 1952. 10¢ each

Cecil Houdyshel, Dept. F, La Verne, Calif.

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SEEDS
PLANTS

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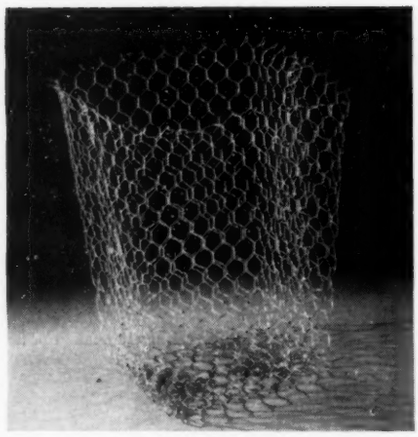
Things Out-of-the-Ordinary

Conducted by C. W. WOOD



Bulb Planting Basket

If you plant your bulbs in one of these wire baskets you will protect them from mole and gopher damage and injury from deep cultivation. (Romaine B. Ware, Canby, Ore.)

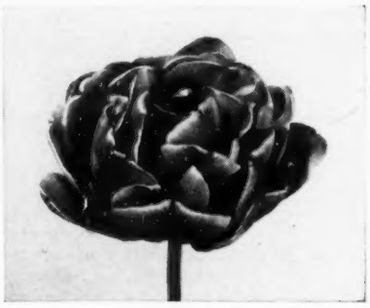
Double Petunias

Last summer I saw a collection of named double-flowering petunias that gave me the urge again to gather a group of these accommodating plants around me. The gardener had bought six named varieties from Henry Field Seed & Nursery Co., Shenandoah, Iowa, last spring and when I saw them in pots in late August they were a mass of double flowers 3 inches or more across in a pleasing range of colors from white through pinks to purple.

Steuben Grape

Many good new things have come from the plant breeders' workshop at the New York State Experiment Station, but nothing in grapes that I have seem to compare in usefulness with Steuben. It seems to have everything that the perfect grape should have, including a very large bunch of big blue fruits that are tender, sweet and of delicious aroma. Although it ripens with Concord, it will keep in good condition until Christmas. And it is disease resistant. Maloney Brothers Nursery Co., 66 Circle Rd., Dansville, New York.

Tulip Arthur Godfrey



• One of the latest novelty tulips is the variety Arthur Godfrey, named for the radio and television star. The flower is a full double of intense scarlet, carried on a strong, straight stem. Mr. Godfrey first received the tulip on his television show of May 7, 1952. Immediately before the presentation, the variety name was registered with the Dutch Bulb Growers Exchange. Stock of the new tulip is being grown by the Nelis Nurseries, Inc., Holland, Michigan.

Flame Violet

It is heartening to find that my old friend Episcia coccinea is being made easily available to American gardeners under the name of flame violet. The Welch Nurseries, Shenandoah, Iowa, is the firm offering it. The name is apt because of its close relationship to saintpaulia and the similiarity in both flowers (brilliant scarlet color in episcia) and leaves (velvety with lovely bands of bronze and emerald). It is not quite so easy to grow as African violets, as it needs high humidity, warmth (never below 63° to 65°) and a light, humus-filled soil. But it is worth a little extra care!

Squash Baby Blue

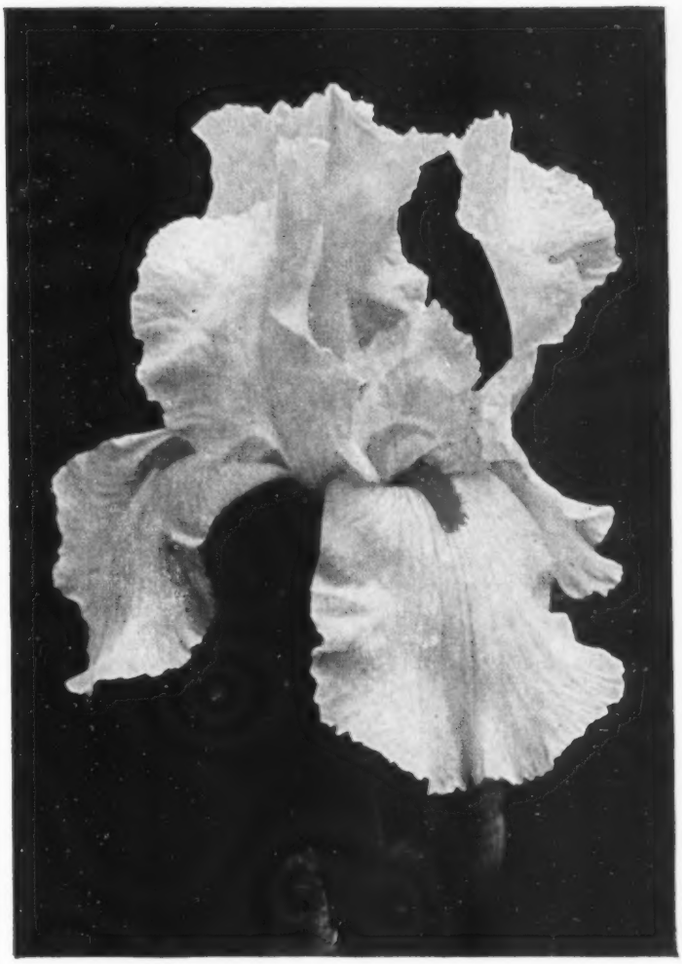
Most gardeners agree that for the highest quality in squashes, including best flavor, one has to go to the Hubbard, either blue or green. The trouble heretofore has been that the vines took up too much room in a garden of limited area. Also, when one got the crop harvested there was sure to be heavy waste because the fruits were too big for the average family to eat before spoiling. All that has been corrected by the introduction of Baby Blue, a bush type Hubbard of the same delicious flavor but of a size that you and I can handle without loss. Breck's, 266 Breck Building, Boston 10, Massachusetts.

Rose-Mallow Annie J. Hemming

Ever since Meehan introduced his Mallow Marvels and Bobbink & Atkins their Giant Hybrids soon after the turn of the century, the rose-mallows have been garden favorites. During the years many new kinds have come upon the scene with varying degrees of success. And I now read that Eastern Shore Nurseries, Inc., P.O. Box 743, Easton, Maryland, have a new one, Annie J. Hemming, with spectacular bright red flowers, to 7 inches across. I have not seen it, but when the Hemmings say a plant of theirs is good, I am sure it is.

"Cherie"

- the Queen of the Flamingo Pinks



Beauty, charm, grace and personality, in fact, all the good qualities one can wish for in an Iris are found in Cherie. Winner of numerous blue ribbons and all the awards an Iris may receive, including the most coveted, the Dykes Medal. The large, perfectly formed blossoms, which are freely produced, appear to be fashioned of the most delicately colored shimmering silk.

A clump of Cherie is a breath-taking unforgettable sight. It has a regal air and aristocratic bearing which sets it apart as one of the most outstanding Iris introduced in recent years.

$8.00 each but priced special when you order it with one of the following collections. You save $3.00

HIT PARADE Collection

Select SEVEN for only $5.00
Select SEVEN plus ONE CHERIE for only $10.00

ARAB CHIEF—Imposing burnt orange	**$1.00**
BLUE RHYTHM—Cornflower blue	**1.00**
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GARDEN FLAME—Lustrous garnet-red	**1.00**
JAKE—Tall, stately white. Fragrant	**.75**
LADY MOHR—Oyster white and chartruese	**1.00**
MINNIE COLQUITT—White, bordered wine-purple	**1.00**
OLA KALA—Ruffled, deep yellow	**1.00**
PIKES PEAK PINK—Shell pink	**1.00**
RANGER—Rich red-purple	**1.50**
SABLE—"King of the Blacks"	**.75**
THREE CHEERS—Light blue and dark violet	**1.00**
THREE OAKS—Huge colorful blend	**1.00**
VATICAN PURPLE—Plush royal purple	**1.00**

All 15 for only $10.00, postpaid
All 15 plus 1 CHERIE for only $15.00, postpaid

HALL FLAMINGO PINKS

Several years ago we purchased a considerable number of the famous new Flamingo Pink Iris produced by Mr. David Hall. If you visit our gardens at blooming time, you will see that these Iris rival in beauty many high priced Hall named varieties. They are always the center of attraction. Now, for a nominal sum, you can treat yourself and your garden to this delectable new color in Iris.

Each $3.00; 4 (all different) for $10.00, postpaid, 4 Flamingo Pinks plus 1 CHERIE for $15.00, postpaid

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FIRECRACKER—Yellow, heavily bordered red. Bright.
BLUE SHIMMER—Huge white with stippled blue edge.
TIFFANJA—Tall, sedate buff and cream. Impressive.

Three fancies which are real attention getters. Each one is universally acknowledged as the ultimate in its color class.

All 3 for only $2.75. (A $3.75 value)
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FREE ***Beautiful illustrated color catalog of the Worlds Finest Iris. Contains many money saving collections. Send for your copy, TODAY.***

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The Tulip "BUY" of the Year!

GIANT Red Emperor 10¢

Largest, Earliest Most Brilliant of All Tall Giant Tulips

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Nearly half a million of these top-size Red Emperor Tulip Bulbs were planted by Burpee customers last year! Spectacular intense scarlet, with a glowing iridescence that attracts attention way across the garden, IN APRIL. *Doubly welcome so early,* when red flowers are scarce! Immense streamline petals; the flowers *open up to 9 in. across,* on 18-in. stems. We've kept the same low price for 1953, in spite of rising costs. Thousands could not get Red Emperor bulbs at planting time last fall, so *order yours right away.*

10 BULBS $1
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NOTE—For the largest blooms and longest, strongest stems be sure your tulip bulbs are of top size. All Burpee Tulips are TOP-SIZE Bulbs—the very best.

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DOLLAR SPECIALS -- and Larger Quantities

Giant Darwin Tulips

Beautifully formed flowers on long, strong stems. Glorious shades of red, pink, yellow, white, purple, violet—all these best colors mixed! Choicest kinds, all top-size bulbs. Special: **10 BULBS $1**
50 BULBS $4.25; 250 BULBS $20

Fantasy Parrot Tulips

Hugh, exotic, most beautiful of all Tulips! Geranium-red, tinted rose, marked green. Top-size bulbs, special: **10 BULBS $1**
25 BULBS $2.50; 250 BULBS $24

Blue Parrot Tulips

Unique, showy, in steel blue and bright violet. Huge wavy petals, long stems. All top-size bulbs. New low price: **10 BULBS $1**
25 BULBS $2.50; 250 BULBS $24

Early Orders filled first, soon as bulbs arrive from Holland. Order now, get the choicest.

Giant Trumpet Daffodils

Glorious "Long Trumpets," with largest flowers on strong stems 1 ft. and more tall. Lovely yellows, whites and bicolors mixed. An outstanding early spring display for beds and borders, and fine to cut for bouquets. Also excellent in pots indoors. Very special! **15 BULBS $1**
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Red-Cupped Daffodils

Distinctive, brilliant! The cups are strikingly marked in shades of deep orange and red, contrasting with the pure white, creamy or light yellow petals. A favorite mixture that is always admired and makes a grand display. **12 BULBS $1**
50 BULBS $3.75; 250 BULBS $17.50

Large Flowered Crocus

There's only a small supply of high grade Crocus, so order right away! ALL COLORS MIXED, including blue, purple, yellow, white and striped. Special low price: **30 BULBS $1**
65 BULBS $2.00; 175 BULBS $5

Regal Lilies

Immense, very fragrant, pure white blooms shaded lilac-pink on outside, in July. Easy to grow—will live for years. **5 BULBS $1**
12 BULBS $2.25; 50 BULBS $9

Large Flowered Hyacinths

For exquisite fragrance, stately spikes and showy colors, Hyacinths lead the way. Choice bedding size bulbs in lovely shades of blue, red, yellow, rose, pink and white—a grand mixture. **5 BULBS $1**
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Send postpaid at fall planting time the Burpee Bulbs ordered below:

Red Emperor Tulips 7581
☐ 10 for $1. ☐ 25 for $2.50
☐ 100 Bulbs $10.00

Giant Darwin Tulips 7764
☐ 10 for $1. ☐ 50 for $4.25
☐ 250 Bulbs $20.00

Fantasy Parrot Tulips 7529
☐ 10 for $1. ☐ 25 for $2.50
☐ 250 Bulbs $24.00

Blue Parrot Tulips 7528
☐ 10 for $1. ☐ 25 for $2.50
☐ 250 Bulbs $24.00

Large Flower Hyacinths 7757
☐ 5 for $1. ☐ 16 for $3.00
☐ 100 Bulbs $18.00

Giant Trumpet Daffodils 7744
☐ 15 for $1. ☐ 50 for $3.00
☐ 250 Bulbs $14.00

Red-Cupped Daffodils 7745
☐ 12 for $1. ☐ 50 for $3.75
☐ 250 Bulbs $17.50

Large Flowered Crocus 7774
☐ 30 for $1. ☐ 65 for $2.00
☐ 175 Bulbs $5.00

Regal Lilies 7249
☐ 5 for $1. ☐ 12 for $2.25
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Enclosed is $ .....

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P. O. ..... Zone .... State .....

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Burpee Fall Bulb Book FREE

You'll be thrilled with the matchless beauty of the new Bulbs in this colorful 1953 Burpee Fall Bulb Book—Tulips, Daffodils, Crocus, Hyacinths, Lilies, etc. Our finest selection ever, all at moderate prices; many newer kinds from our Holland growers. Ask for it on the coupon.

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